



TO THOSE WHO CLIMB™

Tools and Grounding Catalog



CHARCE®

Tools & Grounding Catalog 2012

Indexes — Numeric & Alpha

Section

Product

1000 Load Handling Equipment

1100 — Hoists – Mechanical

1150 — Hoists – Powered

1200 — Gins/Booms

1250 — Load Handling Accessories

2000 Hot Line Tools

2100 — Insulated Hand Tools

2150 — Cutters

2200 — Conductor Support

2250 — Transmission Tools

2300 — Jumpers/Load Pick-Up

2350 — Ladders/Platforms

2400 — Cover-Up Equipment

2450 — Instruments and Meters

2500 — Tool Storage/Repair

2550 — Lineman's Accessories

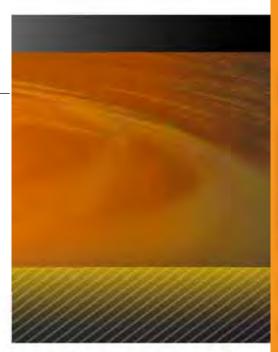
2600 — Recommended Tools Lists

2650 — Rubber Insulating Gloves

3000 Grounding Equipment

4150 Truck Accessories

NOTICE: For the latest revision of our Catalog and Literature, visit our web site: www.hubbellpowersystems.com



Section 10 September 2012



September 2012 Page 10-1



Indexes for the

CHANCE®Tools & Grounding Catalog 2012

This index lists the contents of only the Chance Tool Cata- Indexes can help you find details on tools to build log. Tool Catalog sections are listed on the previous page. and maintain your transmission and distribution systems.

Table of Contents

Contents of Tools & Grounding Catalog Sections	Cover
Numerical Index by Product Catalog Number	10-3 thru 10-12
Alphabetical Index by Product Type	10-13 thru 10-17

These indexes will be out-of-order from time to time because of page updating. Typically, an item that does not appear on the page given in the Index will appear elsewhere in the same catalog section.

Warranty - Material

Hubbell Power Systems, Inc. warrants all products sold by it to be merchantable (as such term is defined in the Uniform Commercial Code) and to be free from defects in material and workmanship. Buyer must notify the Company promptly of any claim under this warranty. The Buyer's exclusive remedy for breach of this warranty shall be the repair or replacement, F.O.B. factory, at the Company's option, of any product defective under the warranty which is returned to the Company within one year from the date of shipment. NO OTHER WARRANTY, WHETHER EXPRESS OR ARISING BY OPERATION OF LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE IMPLIED, SHALL EXIST IN CONNECTION WITH THE COMPANY'S PRODUCTS OR ANY SALE OR USE THEREOF. The Company shall in no event be liable for any loss of profits or any consequential or special damages incurred by Buyer. The Company's warranty shall run only to the first Buyer of a product from the Company, from the Company's distributor, or from an original equipment manufacturer reselling the Company's product, and is non-assignable and non-transferable and shall be of no force and effect if asserted by any person other than such first Buyer. This warranty applies only to the use of the product as intended by Seller and does not cover any misapplication or misuse of said product.

Warranty - Application

Hubbell Power Systems, Inc. does not warrant the accuracy of and results from product or system performance recommendations resulting from any engineering analysis or study. This applies regardless of whether a charge is made for the recommendation, or if it is provided free of charge.

Responsibility for selection of the proper product or application rests solely with the purchaser. In the event of errors or inaccuracies determined to be caused by Hubbell Power Systems, Inc., its liability will be limited to the re-performance of any such analysis or study.

NOTE: Hubbell has a policy of continuous product improvement. We reserve the right to change design and specifications without notice.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-2 September 2012

TOOLS NUMERICAL INDEX

September 2012



TOOLS NOWERICAL INDEX					
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
4012	1103	C3080909	1155, 4156	C4000816	2252, 2511
22301	1253	C3080925	1154, 1156	C4000817	2252, 2511
22302	1253	C3081170	1153	C4000818	2252, 2511
03301024	1258	C3081171	1153	C4000914	1253
03301025	1258	C3081172	1153	C4000915	1253
03301026	1258	C3081180	1153	C4000916	1253
03301027 03301028	1258 1258	C3081190 C3081335	1153 1154	C4000917 C4000918	1253 1253
03301028	1258	C3081333	1157	C4000918 C4000919	1253
03302044	1257	C3081370	1157	C4000919	1253
03302046	1257	C3081390	1157	C4000925	1253
03302048	1257	C3081443	1158	C4001016	2208
03302050	1257	C3090438	1103	C4001166	2503
03302052	1257	C3090439	1103	C4001175	1107
03302054	1257	C3090440	1104	C4001310	2211
033271037	1257	C3090441	1104	C4001418	2120
033271038	1257	C3090442	1104	C4001467	4159
033271039 033271040	1257 1257	C3090457 C3090458	1105 1105	C4001469 C4001509	4154, 4162, 4164 2211
056395P	2508	C3090438 C3160760	1156	C4001509 C4001520	2503
058717P	2102	C4000073	2206	C4001520	2117
058718P	2102	C4000075	2209	C4001583	2117
058719P	2102	C4000090	1202, 2511	C4001584	2117
058735P	2102	C4000152	2263	C4001585	2117
059738P	2253, 2353	C4000171	2204, 2511	C4001586	2117
066780	2116	C4000172	2204, 2511	C4001587	2117
067137P	4169, 4170	C4000219	2262	C4001612	4153
068270P	2102	C4000268	4155, 4161-4162, 69	C4001613	4153
069214P 069326P	2508 2508	C4000269 C4000270	4169 4169, 4179	C4001664 C4001669	4153 4170
069598	2102	C4000270 C4000315	1202	C4001609	4153
069599P	2102	C4000313	2207, 2209	C4001077	4153
070358P	2207	C4000345	2205, 4166-4167	C4001710	4153
200LUGC6	3015	C4000351	4155	C4001711	4153
200LUGC7	3015	C4000440	1202	C4001877	4154, 4162, 4164
20320048	1259	C4000445	2262	C4001878	4159
20320050	1259	C4000464	1204	C4001907	2264, 2313
20320051 20320052	1259 1259	C4000465 C4000469	1204 1204	C4002320 C4002335	2514 2507
20320052	1259	C4000469 C4000470	1204	C4002355 C4002364	2503
20320053	1259	C4000470 C4000472	1203	C4002365	2503
214PH	1256	C4000475	1203	C4002376	4162-4163
215GEHSG	3015	C4000483	1203	C4002377	4163
215LBP	3015	C4000517	2211	C4002392	4160
216PH	1256	C4000574	2264	C4002393	4160
218PH	1256	C4000575	2264	C4002399	1107
225GEHSG	3015	C4000586	1252	C4002400	1107
225LBP 235GEHSG	3015	C4000600 C4000612	2313 2257	C4002538	2504 2476
235LBP	3015 3015	C4000612 C4000613	2257	C4002561 c4002568	2505
3011S	1103	C4000648	1203	C4002577	4162
640062P	2211	C4000690	4155, 4165-4167, 70	C4002719	4153
C200T	1256	C4000691	4170, 4180	C4010015	2259
C3050008	1256	C4000730	2507	C4010095	2255
C3050021	1256	C4000744	4154, 4161	C4010168	2261
C3060000	1106	C4000745	4154	C4010354	2260
C3060000	1107, 2153, 2510, 11	C4000746	4154, 4173, 4178, 82	C4010355	2260
C3060023	2153	C4000747 C4000798	4154, 70, 73, 78, 82 1252	C4010356 C4010357	2260
C3080685 C3080820	1154, 1158 1158	C4000798 C4000799	1252	C4010357 C4010358	2260 2260
C3080856	1154, 1158	C4000799	1252	C4010358	2260
C3080890	1155, 4156	C4000812	2252, 2511	C4010361	2260
C3080900	1157	C4000814	2252, 2511	C4010362	2260
C3080903	1155, 4156	C4000815	2252, 2511	C4010410	2254

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 10-3



				TOOLS	NOWLINICALI
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
C4010411	2254	C4030291	2102, 2510	C4031557	2310
C4010455	2260	C4030292	2102, 2510	C4031558	2310
C4011717	2256	C4030293	2102, 2510	C4031559	2310
C4011718	2256	C4030294	2102, 2510	C4031560	2310
C4011719	2256	C4030295	2102, 2510	C4031597	2107, 2511
C4011720 C4011721	2255 2255	C4030296 C4030297	2102, 2510 2102, 2510	C4031598 C4031599	2107, 2511 2107, 2511
C4011721 C4011722	2261	C4030297	2102, 2510	C4031555 C4031600	2107, 2511
C4011894	2254	C4030299	2102, 2510	C4031601	2107, 2511
C4011894	2255	C4030342	2102, 2510	C4031602	2107, 2511
C4012142	2253	C4030343	2102, 2510	C4031612	2111
C4012144	2253	C4030457	2457	C4031631	2309
C4012146	2253, 2511	C4030458 C4030459	2457 2456-2458	C4031739 C4031762	2107, 2511
C4012147 C4012148	2253, 2511 2253, 2511	C4030459 C4030460	2456-2458	C4031762 C4031762	2453, 2455 2458
C4012149	2253, 2511	C4030464	2456-2458	C4031762	2458
C4012174	2254	C4030547	2471	C4031764	2126
C4012175	2254	C4030572	2471	C4031765	2126
C4012176	2254	C4030613	2105	C4031766	2126
C4012177	2254	C4030614	2105	C4031767	2126
C4012178	2254 2254	C4030689	2156 2156	C4031822	2104 2104
C4012179 C4012215	225 4 2253	C4030690 C4030704	2105	C4031850 C4031851	2104
C4012215	2254	C4030704 C4030731	2156, 2510	C4031031	2117
C4020023	2357	C4030732	2156, 2510	C4032036	2105
C4020024	2357	C4030799	2509	C4032037	2105
C4020119	2353	C4030800	2509	C4032046	2111, 2213
C4020139	2354	C4030803	2471	C4032047	2113
C4020140	2354	C4030814	2105 2125	C4032048	2113 2113
C4020155 C4020276	2354 2358	C4030834 C4030838	2453, 2455, 2457, 70	C4032049 C4032050	2113
C4020288	2355, 2478	C4030979	2465	C4032050	2113
C4020402	2353	C4031017	2107. 2511	C4032052	2113
C4020404	2353	C4031018	2107. 2511	C4032053	2113
C4020407	2353	C4031019	2107. 2511	C4032054	2113
C4020411 C4020418	2353 2353	C4031020 C4031021	2107. 2511 2107. 2511	C4032055 C4032056	2113 2113
C4020418 C4020421	2353	C4031021 C4031022	2107. 2511	C4032057	2113
C4020422	2353	C4031022EM	2109, 2511	C4032058	2113
C4020426	2357	C4031023	2107, 2511	C4032059	2113
C4020482	2353	C4031029	2465	C4032060	2113
C4020512	2353	C4031035	2103	C4032061	2113
C4020513 C4020514	2353 2353	C4031035 C4031036	2510 2103, 2510	C4032062 C4032063	2111, 2113 2113
C4020514 C4020533	2553	C4031030 C4031071	2125	C4032063 C4032064	2113
C4020534	2553	C4031071	2115	C4032065	2113
C4020535	2553	C4031085	2116	C4032066	2113
C4020558	2553	C4031085M	2116	C4032067	2113
C4020578	2553	C4031112	2119	C4032068	2113
C4020790	2260	C4031113	2119	C4032069	2113
C4021042 C4021043	2356 2356	C4031114 C4031140	2119 2465	C4032070 C4032071	2113 2113
C4021055	2357	C4031140	2470	C4032071	2113
C4021079	2356	C4031368	2470	C4032073	2113
C4021164	2357	C4031369	2470	C4032074	2113
C4021173	2357	C4031381	2152, 2510	C4032095	2113
C4030005 C4030006	2125 2125	C4031382 C4031383	2152, 2510 2152, 2510	C4032096 C4032097	2113 2113
C4030006 C4030011	2125 2119, 2125	C4031384	2152, 2510	C4032097 C4032133	2113
C4030116	2119, 2125	C4031416	2126	C4032136	2116
C4030175	2125	C4031417	2126	C4032137	2116
C4030177	2119, 2125	C4031420	2102	C4032213	2111, 2121
C4030184	2115, 2510	C4031421	2153, 2510	C4032213	2158
C4030185 C4030186	2115, 2510 2115, 2510	C4031422 C4031423	2153, 2510 2153, 2510	C4032270 C4032298	2124 2469
C4030100	2113, 2310	C403 1423	2133, 2310	C4032230	2403

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-4 September 2012

TOOLS NUMERICAL INDEX



TOOLS NOWE	RICAL INDEX				
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
C4032299	2469	C4060296	2411	C4170626	2554
C4032505	2127	C4060297	2411	C4176067	1253
C4032506	2127	C4060298	2411	C4176086	3023
C4032525 C4032526	2127 2127	C4060299 C4060304	2411 2411	C4716085 C6000000	1154 2259
C4032527	2127	C4060304 C4060305	2411	C6000000	3011
C4032588	2467	C4060306	2411	C6000152	3022
C4032600	2110	C4060307	2411	C6000197	3008
C4032601	2110	C4060308	2411	C6000198	3008
C4032602	2110	C4060309	2411	C6000337	3006
C4032603 C4032604	2110	C4060340 C4060341	2412 2412	C6000375 C6000386	3006 3005
C4032605	2110 2110	C4060341 C4060342	2412	C6000380	3003
C4032794	2467	C4060343	2412	C6000617	3018
C4032813	2511	C4060346	2409	C6000618	3018
C4032861	2155, 2510	C4060348	2409	C6000619	3018
C4032862	2155, 2510	C4060416	3013	C6000620	3018
C4032979	2154	C4060452	2413	C6000621	3018
C4032980 C4032998	2154 2409-2410, 2514	C4060453 C4060504	2413 2407	C6000729 C6000758	3015 3015
C4032999	2409-2410, 2514	C4060504 C4060514GA	2405	C6000738	3017
C4033060	2103	C4060530	2409-2410	C6000841	3017
C4033061	2103	C4060531	2409-2410	C6000862	3017
C4033068	2106, 2511	C4060532	2409-2410	C6001584	3021
C4033069	2106, 2511	C4060537	2405	C6001625	3014
C4033178 C4033179	2477, 2506 2477, 2506	C4060547 C4060550	2404 2404	C6001626 C6001700	3014 3021
C4033179 C4033220	2477, 2506 2474	C4060550 C4060551	2404	C6001700 C6001732	3012
C4033284	2128	C4060557	2405	C6001732	3006
C4033369	2454-2455	C4060557L	2405	C6001734	3008
C4033370	2454	C4060564	2404	C6001735	3010
C4033371	2455	C4070025	2355, 2478	C6001743	2306, 2308, 3004
C4033374	2462	C4170122 C4170123	2554 2554	C6001754	3004 3008
C4033375 C4033402	2463 2455	C4170123	2554 2554	C6001757 C6001783	3011
C4033403	2455	C4170124	2554	C6001705	2311
C4033409	2462	C4170126	2554	C6001896	2311
C4033431	2463	C4170133	1255	C6001927	3015
C4033449	2474	C4170134	1255	C6001944	2311
C4060000	2404	C4170135	1255 1255	C6001945 C6001950	2311
C4060002 C4060009	2406 2402	C4170136 C4170137	1255	C6001950 C6001959	3024 3004
C4060029	2404	C4170137 C4170138	1255	C6001333	3013
C4060030	2404	C4170139	1255	C6002101	3013
C4060046	2408	C4170140	1255	C6002102	3013
C4060082	2407	C4170141	1255	C6002145	3017
C40600826	2407	C4170142	1255	C6002146 C6002231	3017
C4060082GA C4060083	2407 2407	C4170143 C4170144	1255 2513	C6002231 C6002232	3010 3010
C4060083	2407	C4170144 C4170146	2513	C6002255	3005
C4060083GA	2407	C4170147	2512	C6002256	3005
C4060084	2407	C4170148	2512	C6002271	3004
C40600846	2407	C4170149	2513	C6002275	2311, 3004
C4060084GA	2407	C4170150	2512	C6002276	3004
C4060091 C4060092	2406 2406	C4170151 C4170287	2512 2471	C6002281 C6002282	3005 3005
C4060092	2406	C4170287 C4170337	1154, 1158	C6002282 C6002300	3013
C4060102	2406	C4170337	1158	C6002316	3014
C4060164	2402	C4170343H	1156	C6002317	3014
C4060181	2403	C4170346	1154, 1156	C6002386	2312
C4060181GA	2403	C4170588	1255	C6002387	2312
C4060182	2403	C4170589	1255	C6002598	2304
C4060182L C4060294	2403 2411	C4170623 C4170624	2554 2554	C6002599 C6002600	2304 2304
C4060294	2411	C4170624 C4170625	2554	C6002601	2304
		55525	- •		

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



September 2012 Page 10-5



Catalan		Catalan		Catalan	
Catalog Number	Dage	Catalog Number	Page	Catalog Number	Dago
Number	Page	Number	Page	Number	Page
C6002602	3020	C6010171	2305	E4032543P	2103
C6002603	3020	C6010172	2305	E4032742P	2108
C6002604	3020	C6010173	2305	E7300009P	2312
C6002605	3020	C6010174	2305	E96	1260
C6002606	3019	C6010190	2304	G18102	3007
C6002607	3019	C6010191	2304	G33631	3011
C6002608	3019	C6010192	2304	G33632	3011
C6002609	3019	C6010193	2304	G33633SJ	3010
C6002610	3020	C6010198	2304 2304	G33634SJ	3010 3006
C6002611 C6002612	3020 3020	C6010199 C6010200	2304	G33672 G3369	3006
C6002612	3020	C6010200	2304	G3370	3023
C6002614	3019	C6010260	2306	G3405	3009
C6002615	3019	C6010261	2306	G36051	3005
C6002616	3019	C6010262	2306	G36221	3007
C6002617	3019	C6010263	2306	G3626	3021
C6002618	3020	C6010269	2305	G3627	3021
C6002619	3020	C6010270	2305	G3803	3009
C6002620	3020	C6010271	2305	G422810SJ	3012
C6002621	3020	C85W	1203	G42291SJ	3012
C6002622	3019	CW	2474	G47541	3022
C6002623	3019	E3081321P	1154	G4758	2302
C6002624 C6002625	3019 3019	E3081327P E3081334P	1154 1154, 1158	G4765 G4775	2302 2302
C6002625	3020	E3081354P E3081362P	1158	GR253X	3029
C6002627	3020	E3081434P	1158	GR43BS2	3029
C6002628	3020	E4000008P	4155	H1760	2118
C6002629	3020	E4000748	4161	H17601	2118, 52, 55, 59, 11
C6002630	3019	E4000749	4161-4162	H176010	2118, 2511
C6002631	3019	E4000750	4161-4162	H176012	2118, 2511
C6002632	3019	E4000751	4161-4162	H176014	2118, 2511
C6002633	3019	E4000752	4161-4162, 4166-67	H17602	2118, 2511
C6002850	3025	E4000757	4161-4162	H17603	2118, 2511
C6002851	3025 3025	E4001568 E4001569	4165-4168	H17604	2118, 2511
C6002852 C6002862	2311	E4001569 E4001651	4165-4167 4153	H17605 H17606	2509, 2511 2118, 2511
C6002863	2311	E4001651	4153	H1761	2118, 2511
C6002989	3025	E4001678	4153	H1770	2118, 2511
C6002990	3025	E4001679	4153	H179010	2118, 2511
C6002991	3025	E4001689	4153	H179012	2118, 2511
C6003102	3015	E4001714	4153	H179014	2118, 2511
C6003103	3015	E4001715	4153	H17908	2118, 2511
C6003107	3019	E4001827	4165-4167	H184010	2258
C6003108	3019	E4001953	4153	H18406	2258
C6003109	3019	E4002215 E4002228P	4153 4184	H18408	2258
C6003110 C6003111	3019 3019	E4002228P E4002262	4153	H185519 H185520	2115, 2511 2115, 2511
C6003111	3019	E4002293	4153	H185525	2115, 2511
C6003112	3019	E4010138P	2253	H185526	2115, 2511
C6003114	3019	E4010380	4166-4167	H18612	2157
C6003115	3019	E4011510P	2253	H18716	2157, 2510
C6003116	3019	E4011998P	2253-2257	H18736	2157, 2510
C6003117	3019	E4012066P	2255	H1876	2452
C6003118	3019	E4012068P	2255	H18761	2452
C6003119	3019	E4020087	2354	H18762	2452, 2455, 2459
C6003120	3019	E4020092	2354	H18763	2452, 2459
C6003121 C6003122	3019 3019	E4020099 E4020138	2354 2354	H18764 H18765	2452, 2455, 2459 2452
C6003122 C6010013	2307	E4020136 E4020141	2354	H18766	2452, 55, 60, 62-64, 66-67
C6010013	2307	E4020525	2354	H18766P	2452
C6010037	2307	E4020526	2354	H18766S	2452, 55, 60, 62-64, 66-67
C6010038	2307	E4020568	2354	H18767	2452
C6010162	2305	E4030498	2457	H1879	2459
C6010163	2305	E4030499	2457	H18912	2116-2510
C6010164	2305	E4031614	2111	H18913	2116-2510

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-6 September 2012

TOOLS NUMERICAL INDEX

September 2012



TOOLS NUME	RICAL INDEX				
Catalog		Catalog		Catalog	
Number	Page	Number	Page	Number	Page
H18915	2116-2510	H4455	2118	H4862F	2210
H18916	2116-2510	H445564	2122	H4863	4155
H18917	2510	H4455A	2118	H486310	4155, 4159
H18918	2510	H4539	2508	H48634	4155
H1917	2507	H45391	2508	H4903M10	2358
H1921 H1949113	2507 2257, 2511	H45392 H45393	2508 2508	H4903M12 H49041	2358 2355
H19509	2257, 2511	H45394	2508	H490410	2352
H195090	2259	H45401	2508	H490410A	2352
H19686	2117, 2510	H45402	2508	H490410B	2352
H19688	2117, 2510	H45403	2508	H490412	2352
H1973814	1204	H45404	2508	H490412A	2352
H1973H10 H19786	1204 2117, 2510	H45405 H45406	2508 2508	H490412B H490414	2352 2352
H19788	2117, 2510	H45413	2508	H490414A	2352
H1990ST	2468	H45414	2508	H490414B	2352
H20	1203	H4542	2508	H490416	2352
H2006	2158, 2511	H45421	2508	H490416A	2352
H2020	2158	H45422	2508	H490416B	2352
H2036	2158, 2511	H45423	2508	H49048	2352
H2038	2158, 2511	H45424	2508	H49048A	2352
H2056 H2058	2158, 2511 2158, 2511	H464510 H46458	2204 2204-2511	H49048B H49051	2352 2355
H2106	2158, 2511	H464610	2204-2511	H490510	2352
H21064	2111, 2158	H464612	2204-2511	H490510A	2352
H2120	2158	H46468	2204-2511	H490510B	2352
H2136	2158, 2511	H464710	2204-2511	H490512	2352
H2138	2158, 2511	H464712	2204-2511	H490512A	2352
H2156	2158, 2511	H464714	2204	H490512B	2352
H2158	2158, 2511	H464716	2204-2511	H490514	2352
H3046 H304611	2112 2113, 2510	H467712 H467714	2204 2204-2511	H490514A H490514B	2352 2352
H304612	2113, 2510	H47144	2252-2511	H490516	2352
H304612	2510	H47146	2252	H490516A	2352
H304613	2113, 2510	H47152	2252	H490516B	2352
H304613	2510	H47161	2252-2511	H490518	2352
H304614	2113, 2510	H47162	2252-2511	H490518A	2352
H304614	2510 2113, 2510	H47163 H47164	2252-2511 2252-2511	H490518B H490520	2352 2352
H304615 H304615	2510	H47165	2252-2511	H490520A	2352
H304616	2113, 2510	H47166	2252-2511	H490520B	2352
H304616	2510	H4717	2252-2511	H49058	2352
H304617	2113, 2510	H47171	2252-2511	H49058A	2352
H304617	2510	H4718	2252-2511	H49058B	2352
H304618	2113, 2510	H47181	2252-2511	H49241	2355
H30462	2113 2113, 2510	H47182	2252-2511	H49251	2355
H304620 H304622	2113, 2510	H47183 H47184	2252-2511 2252-2511	H49451 H4964	2355 2357
H304623	2113, 2510	H4720114	2261	H496442W	2356
H304624	2113, 2510	H472084	2261	H49644W	2356
H30465	2113, 2510	H472096	2261	H49646W	2356, 2511
H30466	2113, 2510	H4721112	1204, 2263	H49648W	2356
H30467	2113, 2510	H4722	2252	HG303012	2106, 5211
H30468 H30469	2113, 2510 2113, 2510	H47232 H47234	2263 2263	HG30302 HG30422	2106, 5211 2106
H314612	2113, 2510	H478322	2262	HG30425	2106
H314616	2113, 2510	H47851	2257	HG37061	3007
H314618	2113	H47852	2257	HG422816SJ	3012
H314620	2113, 2510	H47853	2257	HG42296SJ	3012
H314624	2113, 2510	H480060	2211	HG42301	2259
H33651	2508	H480072	2211	M17285	2205
H33652	2508	H4809W	2211	M1729	2205
H33653 H422114	2508 2114	H486210A H486251	4161-4162, 4166 2210	M17291 M17292	2205 2205
H422116	2114	H48628	2210	M17293	2205
-					

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 10-7



				10013	NOWIERICAL INDEX
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
M1846W	2207	M44559	2110-2111, 2120	P4000256P	4170
M1847	2207	M445592	2124	P4000682P	4170
M18473	2207	M445593	2124	P4000684P	4170
M18474	2207	M445596	2119, 2124	P4000685P	4170
M18476	2207	M445597	2124	P4000686P	4170
M1848W	2207, 2211	M445598	2124, 2468	P4000687P	4170
M1858	2509	M45529B	2121	P4000688P	4170
M1860	2118	M45572	2123	P4000689P	4170
M1867	2102	M45587	2124	P4001592P	4169
M1889	2122	M4660	2509	P4001592P	4170
M18951	1252	M47241	2261	P4001594	4165-4167
M18952	1252	M474010W	2206	P4001594P	4172
M18953	1252	M474014	2205	P4002536P	4172
M18954	1252	M474015W	2206	P4020041	2353
M18955	1252	M474016W	2206	P4030467P	2108, 2118
M18962	1252	M474017W	2206	P4030987P	2108
M18963	1252	M474018W	2206	P4030988P	2108
M18964	1252	M474019W	2206	P4030989P	2108
M1904	2503	M474020W	2206	P4030990P	2108
M1909	2507	M47403W	2206	P4030991P	2108
M19483	2257	M47404W	2206	P4030992P	2108
M1979	2263	M47405W	2206	P4030993P	2108
M30021	2509	M47409W	2206	P4030994P	2108
M42191	2114	M47411	2206	P4030995P	2108
M42192	2114	M47412	2206	P4030996P	2108
M4221	2114	M47413	2206	P4030997P	2108
M42212	2114	M47415	2206	P4030998P	2108
M42213	2114	M4742	2207	P4030999P	2108
M445510	2120	M4743	2205	P4031001P	2108
M4455102	2119, 2124	M4744	2207	P4031002P	2108
M4455103	2119, 2125	M4745	2205	P4031003P	2108
M445512	2119-2120	M47451	2205	P4031004P	2108
M445515 M445516	2119-2120 2120	M47601W M47602	2208 2208	P4031005P P4031006P	2108 2108
M445517	2120	M4760W	2208	P4031000P	2108
M445519	2119, 2121	M480515	2209, 4155	P40310071	2108
M44552	2119, 2120	M480516	2210, 4155	P4031009P	2108
M445522	2119, 2121	M480517	2211, 4155	P4031010P	2108
M445523	2121	M48057	2209, 2211, 4155, 69	P4031011P	2108
M445525	2121	M48061	4171, 4181, 4185	P4031012P	2108
M445528	2119, 2121	M490110W	2357	P4031013P	2108
M445529B	2111	M490121	2357	P4031014P	2108
M445536	2121	M4931	2408	P4031107P	2102
M445537	2120	M4933	2408	P4031387P	2152-2153
M445538	2119, 2122	M49371	2404	P4031388P	2152-2153
M445539	2119, 2122	M49372	2404	P4031977P	2108
M445540	2122	M49374	2404	P4032044P	2102
M445546	2119, 2122	M49376	2404	P4032252P	2117
M44555	2119-2120	MEAMP11RW	2476	P4032283P	2158
M455550	2122	MEAMP21RW	2476	P4032312P	2102, 2117, 2508
M44556	2119-2120	MEAMP32RN MEAMP32RN2	2476 2476	P4032351P P4032352P	2108 2108
M445563 M445566	2122 2111, 2122	P001001P	4169	P4032514P	2108
M445567	2119, 2122	P0010017 P0010287P	4170	P4032914F	2111
M445569	2122	P0010309P	2108	P4033001P	2108
M445570	2123	P0010419P	2108	P4033002P	2108
M455571	2123	P0010760P	2102	P4033152P	2102
M445577	2123	P059694P	2508	P4060184	2403
M445578	2123	P4000249P	4169	P4060185	2403
M445579	2119, 2123	P4000250P	4169	P4060186	2403
M445582	2119, 2123	P4000252P	4169	P6001593P	3020
M445584	2119, 2123	P4000253P	4169	P6001623P	3014
M445585	2123	P4000254P	4169	P6001969P	3014
M445588	2124	P4000255P	4169-4170	P6001982P	3020
M445589	2124	P4000256P	4169-4170	P6002069P	3020
	-				

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-8 September 2012

TOOLS NUMERICAL INDEX



TOOLS INDIVIED	RICAL INDEX				
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
P610	2511	PSC0011B9	2657	PSC111HLDS	2554
P62110	2510-2511	PSC0011B9H	2657	PSC111HLDSLH	2554
P62112	2510-2511	PSC0011Y10	2657	PSC114B10	2658
P62114	2511	PSC0011Y10H	2657	PSC114B10H	2658
P6213	2511	PSC0011Y11	2657	PSC114B11	2658
P6215	2510-2511	PSC0011Y12	2657	PSC114B12	2658
P6216	2510-2511	PSC0011Y7	2657	PSC114B8	2658
P6218	2456-2468, 2510-11	PSC0011Y8	2657 2657	PSC114B8H	2658
P6242 P6244	2452, 2455, 2459	PSC0011Y8H PSC0011Y9	2657 2657	PSC114B9 PSC114B9H	2658 2658
P6406	2452, 2455, 2459 2510	PSC001119	2657	PSC114BCRB10	2659
P6408	2510	PSC0014B10	2657	PSC114BCRB10H	
P64310	2510-2511	PSC0014B10H	2657	PSC114BCRB11	2659
P64312	2510-2511	PSC0014B11	2657	PSC114BCRB12	2659
P64314	2511	PSC0014B12	2657	PSC114BCRB9	2659
P6432	2510	PSC0014B7	2657	PSC114BCRB9H	2659
P6433	2510	PSC0014B8	2657	PSC114BCYB10	2659
P6434	2510-2511	PSC0014B8H	2657	PSC114BCYB10H	
P6435	2510	PSC0014B9	2657	PSC114BCYB11	2659
P6436	2104, 52, 55, 2510-11	PSC0014B9H	2657	PSC114BCYB12	2659
P6438	2104, 2510-2511	PSC0014Y10	2657 2657	PSC114BCYB9	2659 2659
P644 PS105A	2511 2560	PSC0014Y10H PSC0014Y11	2657	PSC114BCYB9H PSC114RB10	2658
PS105A PS105AC	2560	PSC0014111 PSC0014Y12	2657	PSC114RB10H	2658
PS105AC PS105B	2560	PSC0014112 PSC0014Y7	2657	PSC114RB1011	2658
PS105BC	2560	PSC0014Y8	2657	PSC114RB12	2658
PS111HLS	2554	PSC0014Y8H	2657	PSC114RB8	2658
PS111HLSLH	2554	PSC0014Y9	2657	PSC114RB8H	2658
PS160NDxx	2556	PSC0014Y9H	2657	PSC114RB9	2658
PS28056HL	2559	PSC011B10	2657	PSC114RB9H	2658
PS400006	1253	PSC011B10H	2657	PSC114YB10	2658
PS51N2HL	2557	PSC011B11	2657	PSC114YB10H	2658
PS52N2HL	2557	PSC011B12	2657	PSC114YB11	2658
PS53N2HL PS54N2HL	2557 2557	PSC011B7 PSC011B8	2657 2657	PSC114YB12 PSC114YB8	2658 2658
PS647TDSL	2558	PSC011B8H	2657	PSC114YB8H	2658
PS647TDSM	2558	PSC011B9	2657	PSC114YB9	2658
PS647TDSS	2558	PSC011B9H	2657	PSC114YB9H	2658
PS647TDSXL	2558	PSC011Y10	2657	PSC116B10	2658
PS683XAP2X	2558	PSC011Y10H	2657	PSC116B10H	2658
PS683XAP3X	2558	PSC011Y11	2657	PSC116B11	2658
PS683XAPL	2558	PSC011Y12	2657	PSC116B12	2658
PS683XAPM	2558	PSC011Y7	2657	PSC116B8	2658
PS683XAPS	2558	PSC011Y8	2657	PSC116B8H	2658
PS683XAPXL	2558	PSC011Y8H	2657 2657	PSC116B9 PSC116B9H	2658 2658
PS87N PS88BDxx	2560 2556	PSC011Y9 PSC011Y9H	2657	PSC116B9FI PSC116BCRB10	2659
PS88Dxx	2556	PSC014B10	2657	PSC116BCRB10H	
PSBD141N	2559	PSC014B10H	2657	PSC116BCRB11	2659
PSBD142N	2559	PSC014B11	2657	PSC116BCRB12	2659
PSBD143N	2559	PSC014B12	2657	PSC116BCRB9	2659
PSBD144N	2559	PSC014B7	2657	PSC116BCRB9H	2659
PSBD145N	2559	PSC014B8	2657	PSC116BCYB10	2659
PSBD16B1N	2559	PSC014B8H	2657	PSC116BCYB10H	
PSBD16B2N	2559	PSC014B9	2657	PSC116BCYB11	2659
PSBD16B3N PSBD16B4N	2559 2559	PSC014B9H PSC014Y10	2657 2657	PSC116BCYB12 PSC116BCYB9	2659 2659
PSBD 16B4N PSBD16B5N	2559 2559	PSC014Y10 PSC014Y10H	2657 2657	PSC116BCYB9H	2659 2659
PSC0011B10	2657	PSC014Y110H	2657	PSC116RB10	2658
PSC0011B10H	2657	PSC014Y12	2657	PSC116RB10H	2658
PSC0011B111	2657	PSC014Y7	2657	PSC116RB11	2658
PSC0011B12	2657	PSC014Y8	2657	PSC116RB12	2658
PSC0011B7	2657	PSC014Y8H	2657	PSC116RB8	2658
PSC0011B8	2657	PSC014Y9	2657	PSC116RB8H	2658
PSC0011B8H	2657	PSC014Y9H	2657	PSC116RB9	2658

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



September 2012 Page 10-9



Catalog		Catalog		Catalog	
Number	Page	Number	Page	Number	Page
PSC116RB9H	2658	PSC216BCYB9	2659	PSC2RRYEC	2661
PSC116YB10	2658	PSC216BCYB9H	2659	PSC2RYBEC	2661
PSC116YB10H	2658	PSC216RB10	2658	PSC2RYEC	2661
PSC116YB11	2658	PSC216RB10H	2658	PSC2XLRYEC	2661
PSC116YB12	2658	PSC216RB11	2658	PSC2XLYBEC	2661
PSC116YB8	2658	PSC216RB12	2658	PSC2XLYEC	2661
PSC116YB8H	2658	PSC216RB8	2658	PSC3081563	1156
PSC116YB9	2658	PSC216RB8H	2658	PSC3090323	1107, 2511
PSC116YB9H	2658	PSC216RB9	2658	PSC3090451	1106
PSC130D	2560	PSC216RB9H	2658	PSC3090452	1106
PSC1511NDxx	2556	PSC216YB10	2658	PSC3090467	1107
PSC214B10 PSC214B10H	2658 2658	PSC216YB10H PSC216YB11	2658 2658	PSC3090468 PSC3090663	1107 1106
PSC214B10H	2658	PSC216YB12	2658	PSC3120000	1107
PSC214B11	2658	PSC216YB8	2658	PSC316BCRB10	2659
PSC214B8	2658	PSC216YB8H	2658	PSC316BCRB10H	
PSC214B8H	2658	PSC216YB9	2658	PSC316BCRB11	2659
PSC214B9	2658	PSC216YB9H	2658	PSC316BCRB12	2659
PSC214B9H	2658	PSC218BCRB10	2659	PSC316BCRB9	2659
PSC214BCRB10	2659	PSC218BCRB10H		PSC316BCRB9H	2659
PSC214BCRB10H	I 2659	PSC218BCRB11	2659	PSC316BCYB10	2659
PSC214BCRB11	2659	PSC218BCRB12	2659	PSC316BCYB10H	2659
PSC214BCRB12	2659	PSC218BCRB9	2659	PSC316BCYB11	2659
PSC214BCRB9	2659	PSC218BCRB9H	2659	PSC316BCYB12	2659
PSC214BCRB9H		PSC218BCYB10	2659	PSC316BCYB9	2659
PSC214BCYB10	2659	PSC218BCYB10H		PSC316BCYB9H	2659
PSC214BCYB10F		PSC218BCYB11	2659	PSC316RB10	2658
PSC214BCYB11	2659	PSC218BCYB12	2659	PSC316RB10H	2658
PSC214BCYB12	2659	PSC218BCYB9	2659	PSC316RB11	2658
PSC214BCYB9	2659	PSC218BCYB9H	2659	PSC316RB12	2658
PSC214BCYB9H PSC214RB10	2659 2658	PSC218CRB10 PSC218CRB10H	2660 2660	PSC316RB8 PSC316RB8H	2658 2658
PSC214RB10H	2658	PSC218CRB10H	2660	PSC316RB9	2658
PSC214RB10H	2658	PSC218CRB11	2660	PSC316RB9H	2658
PSC214RB12	2658	PSC218CRB8	2660	PSC316YB10	2658
PSC214RB8	2658	PSC218CRB8H	2660	PSC316YB10H	2658
PSC214RB8H	2658	PSC218CRB9	2660	PSC316YB11	2658
PSC214RB9	2658	PSC218CRB9H	2660	PSC316YB12	2658
PSC214RB9H	2658	PSC218CYB10	2660	PSC316YB8	2658
PSC214YB10	2658	PSC218CYB10H	2660	PSC316YB8H	2658
PSC214YB10H	2658	PSC218CYB11	2660	PSC316YB9	2658
PSC214YB11	2658	PSC218CYB12	2660	PSC316YB9H	2658
PSC214YB12	2658	PSC218CYB8	2660	PSC318BCRB10	2659
PSC214YB8	2658	PSC218CYB8H	2660	PSC318BCRB10H	
PSC214YB8H	2658	PSC218CYB9	2660	PSC318BCRB11	2659
PSC214YB9	2658	PSC218CYB9H	2660	PSC318BCRB12	2659
PSC214YB9H	2658	PSC218RB10 PSC218RB10H	2658	PSC318BCRB9	2659
PSC216B10 PSC216B10H	2658 2658	PSC218RB11	2658 2658		2659 2659
PSC216B10H PSC216B11	2658	PSC218RB12	2658	PSC318BCYB10H	
PSC216B11	2658	PSC218RB8	2658	PSC318BCYB11	2659
PSC216B8	2658	PSC218RB8H	2658	PSC318BCYB12	2659
PSC216B8H	2658	PSC218RB9	2658	PSC318BCYB9	2659
PSC216B9	2658	PSC218RB9H	2658		2659
PSC216B9H	2658	PSC218YB10	2658	PSC318CRB10	2660
PSC216BCRB10	2659	PSC218YB10H	2658	PSC318CRB10H	2660
PSC216BCRB10H		PSC218YB11	2658	PSC318CRB11	2660
PSC216BCRB11	2659	PSC218YB12	2658	PSC318CRB12	2660
PSC216BCRB12	2659	PSC218YB8	2658	PSC318CRB9	2660
PSC216BCRB9	2659	PSC218YB8H	2658	PSC318CRB9H	2660
PSC216BCRB9H		PSC218YB9	2658	PSC318CYB10	2660
PSC216BCYB10	2659	PSC218YB9H	2658	PSC318CYB10H	2660
PSC216BCYB10F		PSC2LRYEC	2661	PSC318CYB11	2660
PSC216BCYB11 PSC216BCYB12	2659 2659	PSC2LYBEC	2661 2661	PSC318CYB12	2660 2660
racz lode I B IZ	2033	PSC2LYEC	۷00 ا	PSC318CYB9	2000

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-10 September 2012

TOOLS NUMERICAL INDEX



TOOLS INDIVIL	CAL INDEX				
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
PSC318CYB9H	2660	PSC416RB9H	2658	PSC6010342	2311
PSC318RB10	2658	PSC416YB10	2658	PSC6010343	2311
PSC318RB10H	2658	PSC416YB10H	2658	PSC6010344	2311
PSC318RB11	2658	PSC416YB11	2658	PSC6010345	2311
PSC318RB12	2658	PSC416YB12	2658	PSC6010346	2311
PSC318RB8	2658	PSC416YB9	2658	PSC6010347	2312
PSC318RB8H	2658	PSC416YB9H	2658	PSC6010348	2312
PSC318RB9	2658	PSC4170627	2129	PSC60FHDXX	2555
PSC318RB9H	2658	PSC4170628	2129	PSC78A2HL	2557
PSC318YB10	2658	PSC4170629	2129	PSC78B2HL	2557
PSC318YB10H PSC318YB11	2658 2658	PSC4170630 PSC418BCRB10	2130, 2152 2659	PSC78C2HL PSC78X2HL	2557 2557
PSC318YB12	2658	PSC418BCRB10H		PSC85N	2560
PSC318YB8	2658	PSC418BCRB11	2659	PSC86N	2560
PSC318YB8H	2658	PSC418BCRB12	2659	PSC89N	2560
PSC318YB9	2658	PSC418BCRB9	2659	PSE4033454	2456, 2458
PSC318YB9H	2658	PSC418BCRB9H	2659	PSE4033455	2456
PSC3LRYEC	2661	PSC418BCYB10	2659	PSE4033473	2456, 2458
PSC3LYBEC	2661	PSC418BCYB10H		PSP4033458P	2102
PSC3LYEC	2661	PSC418BCYB11	2659	PSP4033459P	2102
PSC3RRYEC	2661	PSC418BCYB12	2659	PSP4033460P	2102
PSC3RYBEC	2661	PSC418BCYB9	2659	PSP4033461P	2102
PSC3RYEC	2661	PSC418BCYB9H	2659	PSP4033462P	2102
PSC3XLRYEC	2661 2661	PSC418CRB10 PSC418CRB10H	2660 2660	PSP4033482P PSP6435004	2102 2510
PSC3XLYBEC PSC3XLYEC	2661	PSC418CRB10H	2660	PSP6435004	2510
PSC4000690002		PSC418CRB12	2660	PST4001926	4180
PSC4002915	2257	PSC418CRB9	2660	PST4001945	4179
PSC4002916	2257	PSC418CRB9H	2660	PST4002818	4157
PSC4002927	2265	PSC418CYB10	2660	PST4002819	4157
PSC4002937	4170	PSC418CYB10H	2660	PST4002820	4157
PSC4004101	2212	PSC418CYB11	2660	PST4002821	4157
PSC4004102	2212	PSC418CYB12	2660	PST4002856	4176
PSC4004103	2212	PSC418CYB9	2660	PST4003059	4158
PSC4030187 PSC4030592	2115 2106	PSC418CYB9H PSC418RB10	2660 2658	PST4003111 PST4032913	4153 2118
PSC4032879	2403	PSC418RB10H	2658	PST4032913 PST4032914	2118
PSC4032915	2460	PSC418RB11	2658	PST6003438	3029
PSC4032947	2474	PSC418RB12	2658	S10043	2303, 2305, 2308
PSC4033220001	2474	PSC418RB9	2658	S10044	2303, 2305, 2308
PSC4033465	2456, 2458	PSC418RB9H	2658	S10045	2303, 2305, 2308
PSC4033466	2456, 2458	PSC418YB10	2658	S10046	2303, 2305, 2308
PSC4033478	1253	PSC418YB10H	2658	S11272	2303, 2305
PSC4033479	1253	PSC418YB11	2658	S11273	2303, 2305
PSC4033480	1253	PSC418YB12	2658	S11274	2303, 2305
PSC4033484 PSC4033582	2121 2460	PSC418YB9 PSC418YB9H	2658 2658	S16007 S3712	2307
PSC4060607	2410	PSC4LRYEC	2661	S3712 S3713	3019 3019
PSC416BCRB10	2659	PSC4LYBEC	2661	S3714	3019
PSC416BCRB10H		PSC4LYEC	2661	S3715	3019
PSC416BCRB11	2659	PSC4RRYEC	2661	S6116	3019
PSC416BCRB12	2659	PSC4RYBEC	2661	S6117	3019
PSC416BCRB9	2659	PSC4RYEC	2661	S6118	3019
PSC416BCRB9H		PSC4XLRYEC	2661	S6119	3019
PSC416BCYB10	2659	PSC4XLYBEC	2661	S6449	3019
PSC416BCYB10H		PSC4XLYEC	2661	S6450	3019
PSC416BCYB11	2659	PSC6003080	3025	S6451	3019
PSC416BCYB12 PSC416BCYB9	2659 2659	PSC6003103003 PSC6003345	3015 3027	S7568 SPM29471	3019 2257
PSC416BCYB9H	2659	PSC6003345 PSC6003346	3027	T161340H	1260
PSC416RB10	2658	PSC6003347	3027	T165640H	1260
PSC416RB10H	2658	PSC6003348	3027	T165650H	1260
PSC416RB11	2658	PSC6003349	3027	T16845H	1260
PSC416RB12	2658	PSC6003350	3027	T3060006	3024, 4156
PSC416RB9	2658	PSC6010341	2311	T3060007	2510

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



September 2012 Page 10-11

CHANCE®

SFIAT				TOOLS	NUMERIC
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
T3060014	2510	T4031101	2122	T6010285	2308
T3060023	2510	T4031245	2108	T6010286	2308
T3060025	2510	T4031246	2108	T6010287	2308
T3060028	2510	T4031247	2108	T6010288	2308
T3060029 T3066008	2510 2510	T4031248 T4031249	2108 2108	T710112T T710133T	2311 2311
T3080997	1157-1158	T4031249	2108	T7101331 T710211T	2311
T3080999	1156	T4031250	2108	T7102111	2311
T3081506	1155	T4032205	2107, 2511	T730133T	2312
T4000838	2262	T4032261	2452	T730233T	2312
T4000870	1203	T4032271	2466	V4010157P	2257
T4001252	2511	T4032311	2452	V4010158	2257
T4001257	1253	T4032398	2452	V4011057P	2253
T4001258 T4001413	1253 2207	T4032417 T4032557	2211 2453	V4011058 WPH3	2253 1260
T4001413	4186	T4032337	2457	VVFN3	1200
T4001658	4154, 4173, 4178, 82	T4032889	2152-2153		
T4001708	1203	T4032992	2106		
T4001753	4162	T4033009	2116		
T4001764	4187	T4033159	2474		
T4001824	4165	T4033228	2464		
T4001854	4166	T4033240	2107		
T4001855 T4001856	4167 4168, 4173, 4178, 82	T4033349 T4033418	2107, 2511 2462		
T4001857	4168, 4173, 4178, 82	T4033416	2478		
T4001912	4181	T6000252	3022		
T4001927	4178	T6000465	3004		
T4001929	4175	T6000466	3004		
T4001930	4177	T6000641	3016		
T4001931	4174	T6000658	3005		
T4001932	4173	T6000806	3007		
T4001933 T4001937	4188 1202	T6000841 T6000865	3017 3021		
T4001937	1202	T6000891	3018		
T4001939	2213	T6001549	3022		
T4001940	2213	T6001693	3012		
T4001941	4183	T6001737	3022		
T4001942	4184	T6001798	3010		
T4001943	4185	T6001922	3014		
T4001946 T4002007	4182 1202, 2213	T6001964 T6001971	3022 3023, 4157		
T4002007	2214	T6001371	3025, 4157		
T4002486	4162-4163	T6002131	3014		
T4002486BI	4160	T6002234	3014		
T4002529	4158	T6002246	3015		
T4002530	4158	T6002320	3013		
T4002647	4153	T6002364	3013		
T4012265 T4020030	2255 2357	T6002375 T6002408	3015 3017		
T4020423	2353	T6002708	3004		
T4020423	2356	T6002765	3025		
T4020632	2356	T6002867	3013		
T4020694	2553	T6003091	3015		
T4020899	2354	T6003092	3015		
T4020900	2354	T6003094	3016		
T4020901 T4021195	2354	T6003095 T6003096	3016 3016		
T4030428	2357 2460	T6003096	3005		
T4030428	2470	T6010003	2302		
T4030573	2471	T6010039	2302		
T4030602	2470	T6010040	2302		
T4030687	2157, 2510	T6010281	2308		
T4030786	2452	T6010282	2308		
T4030856 T4030857	2455, 2460, 2462, 70 2453, 55, 60, 62, 70	T6010283 T6010284	2308 2308		
140000/	∠+>>, >>, 0∪, 0∠, /U	10010204	2300		

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-12 September 2012

TOOLS ALPHABETICAL INDEX

CHA	NCE®

Catalan		Catalan		Catalan	
Catalog Number	Page	Catalog Number	Page	Catalog Number	Page
4-Way Terminal Block Abrasive Cleaning Pads	3022 2503	Blanket Clamp Blanket Storage	2409-10	Chuck Blank Clamp	2120
Adapter, Universal	2102, 19		2410,2414	Assembly, Wireholder	4170
Adjustable	•	Blanket, Arc-Suppression		All-Angle, Grounding	3012
Hook Assembly	2261	Blanket,		Ball-and-Socket, Groui	nding
Ladder Hook	2355	Slotted Class 4	2409	301	3-3014
Pole Clamp	2253	Blanket,		Blanket	2409-10
Stick	2110	Solid Class 2	2410	Bus-Bar, Grounding	3006
Strain Pole	2253	Block	4252		54, 56, 58
Aerial Platform	2356	Double	1253	Chisel, Grounding	3014
Aerosol Can Holder	2124 1154	Handline	1253 1253	Cluster, Grounding	3009 2210
All Purpose Bracket All-Angle Cog Wrench	2115	Rope Single	1253	Crossarm Assembly C-Type, Grounding	3004-06
All-Angle Pliers	2119, 15	Triple	1253	Cutout	3004-00
All-Purpose Cotter Key	2115, 15	Bolt Head Wrench	2124	Double Ladder 2	354
Tool	2123	Bolt-Down Bracket	1154, 58	Duckbill, Grounding	3007-08
Aluminum Wire Cutter	2156	Boom Adapter	4154, 59,62,	Flat Face, Grounding	3010-11
Amertong	2117		63, 64	Insulated Jumper	2302
Ammeter	2476	Boom Assembly,	•	Ladder	2354
Applicator Tool,		Three-Phase	4161-62	Mounted, Grounding	3007, 08,
Line Hose	2127	Boom Lift, Three-Phase	4153		12, 18
Arbor Adapter	2208	Boom Mounted		Pole	2206
Arc-Chute Assembly	2312	Auxiliary Arm	4154	Spike, Grounding	3014
Arc-Suppression Blanket		Boom Support Pole	1204	Switch Blade, Groundi	
Assist Ring	2103	Boots, Conductive	2554 2108	Tio book	3017
Auto Ranging Voltage In Distribution	2462	Bottom Cap Bracket	2108	Tie-back Wire Holder Assembly	2313 2210
Auto Ranging Voltage Ir			1154, 1158	Wire-Tong	2210
Full Range	2460	•	1154, 1158	Clampstick Head	2111, 21
Auto Ranging Voltage In			1155, 4156	Clampstick, Grip-all	2102
Transmission	2463	Corner Restraint	2214	Clampstick, Grip-all,	
Auxiliary Arm 2209-2	210,	Hitch Mount		Hinged	2102
	1165-4167	with Swivel Ba		Clapstick, Positive Grip	2106
Arm, Boom Mounted		Rope Snubbing	2207	Clear Vision Mirror	2122
Brace Assembly	4155	Steel Arm	2262	Clevis	2442 24
Clamp	4155		1155, 4156	Pin Installer	2119, 24
Bag Glove	2512	Universal Brush.	1154	Screw Ratchet Wire-Tong Pole	2257 2205
Glove and Sleeve	2512	Conductor Cleaning	2122, 24	Wire-Tong Saddle	2205
Line Hose	2512	Bucket, Tool	2513	Climber Pad	2560
Lineman's Tool	2512	Bushing	4170	Climber Strap	2560
Sleeve	2513	Bushing Adapter 2453,	55, 60, 62, 70	Climbers, Pole	2559
	2153, 3021	Button and Spring Kit	2108	Climbing Harness	2558
Ball Socket Adjuster		Button, Blanket	2409-10	Cluster Support	3022
-	21, 24, 25	Button, Telescoping Too		Conductive Boots	2554
Ball Socket Cotter Key	2440	Cable Lift Tool	2115	Conductive Gloves	2553
Remover	2119	Cable Splice, Grounding		Conductive Socks	2553
Band, Punch-Lok	1259	Cable, Grounding	3019 2303	Conductive Suit Conductor	2553
Band, Wire-Tong Bar, Spreader	2205 2354	Cable, Jumper Canister, Blanket Storag		Cleaning Brush	2122, 24
Barricade, Truck Safety	3024,	Cant Hook	1256	•	405, 2408
Barricade, mack sarety	4156	Cap, Base, Sectional Sti		Conductor cover, Spira	•
Barrier, Substation	2406	Cap, Bottom	2108	Cutter	2153
Base Tube	2108	Cap, End,		Gauge	2123
Bayonet Adapter	1158	Grip-All Clampstick	2102		78, 82
Belt	2553, 55	Cap, Plastisol	2508	Corner Restraint,	
Belt, Linemen's Tool	2555	Capstan Drum	1154	Bracket	2214
Belt, Static (conductive)		Capstan Hoist, 1,000 LB		Cotter Key	2425
Binder, D-Buckle Strap	2213	Capstan Hoist, 3,000 LB		Holder	2125
Binder, Strap	1202	Cargo Boom C-Bracket	1203 1155 <i>1</i> 156	Puller Pusher	2124
Bi-Pod Three-Phase Arm Blade, Temporary Cutou		C-Bracket Chain Binder	1155, 4156 2211	Remover	2119, 21 2119
Tool	2311-12		154, 56, 58	Tool	2119, 25
Blade, Tree Trimmer	2158	Chain Extension	2207	Tool, All Purpose	2113, 23
Blanket Button	2409-10		3-1105		

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



September 2012 Page 10-13



Catalog Number	Page		Catalog Number	Page		Catalog Number	Page
Coupler, Line Ho	ose	2412	Extension,			Guide,	
Cover			Wire-Tong Sad	ldle	2206	Grip-All Clam	
Ball Stud		3013	Eye Bolt		2211	Hack Saw	2121
Conductor		3, 05, 08	Eye Pin		2353	Hammer	2123
Crossarm		7-2408	Eye, Pulling		1260	Hand Guard	2509
Crossarm End		2406	Eyenut	س ما	2257	Handles, Insulat	ed 2157
Cutout Deadend		2402 2402, 05	Fall Arrest Lanya Ferrule,	ru	2559	Handle, Grip-All Clam	ostick 2102
Insulator		2403, 05	Aluminum Gro	undina	3020	Handle, Pistol G	
Pole		2404	Ferrule,	dilaling	3020	Handline Gin, To	I'
Pole Top		2406	Copper Groun	ding	3019	Hanger, Insulate	
Post Insulator	•	2406	Fitting, Universa		2108	Hanger, Tool	2509
Set, Insulator		2408	Flexible Insulated			Harness, Climbir	
Crossarm			Flexible Wrench	Head	2122	Harness, Tower	2558
Clamp Assem		2210	Folding Rule		2120	Head, Tree Trimi	mer 2158
Cover End Cover		7-2408	Foot Control, Ca			Head repair kit,	ostick 2102
Tool Hanger		2406 2118	Fork Suspension Fuse Grappler To		2263 2128	Grip-All Clamp Head, Disconnec	
Cutout		2110	Fuse Puller	101	2123	Head, Disconnec	2112-2113
Cover		2402	Fuseholder,		2123	Grip-All Clam	ostick 2102
Tool		2119-20	Temporary Cut	out Too	l 2311	Head,	2.02
Tool, Universa	al	2121	Gate, Wireholde		4169, 70	Rotary Blade	Tie Stick 2123
Cutters			Gin		1202, 03	Head,	
Cutter		2152-57	Gin, Chain Bin	der	1202		Tie Stick 2122
Cutter Head		2153	Gin, Crossarm		1203	Heat Shrink Tub	
Deadend Cover		2402-05	Gin, Crossarm,		4202	Hex Ferrule, Plas	
Deadend Socker		2255	Convert Gin, Multi Dut		1203 1203	Hi-Pot Adapter	2453, 55, 58
Dielectric Comp Digital Voltage			Gin Pole	у	1203	Hitch-Receiver N Hoist	Mount 1156
Disconnect Hea		2120	Gin, Strap Bind	ler	1203	Capstan, 1,000	D LB 1153
Disconnect Head		2120	Gin, Swivel To		1202	Capstan, 3,000	
Non-Metallic		2111	Gloss Restorer K		2503	Chain	1103-1105
Disconnect Head	d,		Glove and Sleeve	Bag	2512	Strap	1106-1107
Universal		2110-11	Glove Bag		2512	Holster, Linemar	n's 2554
Disconnect Stick		2113	Glove, Rubber		2657, 60	Hook	
Disconnect Stick	•	2442	Gloves, Conducti	ve	2553	Assembly, Adj	
Sectional		2113 2354	Grip, Pulling		1257, 58 1260	Adjustable La	dder 2355 1256
Double Ladder of Drum, Capstan		1154, 58	Grip, Wire Grip-All Clampst	ick	2102	Conductor	4154
Dry Film Lubrica		2507	Grip-All Clampst		2102		ket, Strain Carrier
Elbow	4110	2507	Telescoping	icit,	2103	Trook and soc	2254
Adapter	2455, 6	0, 62, 70	Grippers, Impact	Elbow P		Pigtail Probe	2452
Parts		3015			2105	Shepherd	2119, 2122, 2452
Puller		2104	Ground/Groundi	ng		Wire-puller	1260
Electrostatic Pre	•		Cable		3019	Horizontal Towe	er Ladder Attachment
Ford Comp. House		3018	Clamp, All-Ang		3012	Hat Dadday Taal	2354
End Cap, Heavy			Clamp, Ball-an Clamp, Buss-Ba		3006	Hot Rodder Too	
Energized Cable Energized Insula			Clamp, Chisel		3014	Hot Stick Wiping Hydraulic Condu	
Lifergized irisuit		2469	Clamp, Cluster		3009	riyaradiic Conde	2156
Epoxiglas Bond			Clamp, C-Type		3004, 06	Impact Elbow Pu	
_pomg.as _oa		2507	Clamp, Duckbi		3007, 08	Insulated Handle	
Epoxiglas			Clamp, Flat Fac Clamp, Mount	ce od 2007	3010, 11	Insulated Hange	er 2307
Epoxiglas Clea	aning Kit	2503	Clamp, Spike T		3014	Insulated Hydra	ulic Cable Cutter
Epoxiglas Plug	_	2507	Clamp, Switch		3017		2155
Epoxiglas Pole		2508	Clamp, Tempor			Insulated Platfo	
Epoxy Sand Kit		2507		Tool	2311	Insulator	2209, 2211, 4169
Equimat Ground Equimat Ground		3023	Ferrule, Alumi		3020	Insulator Cover Insulator Cover	2403, 2405 Set 2408
Slip Resistant		3027	Ferrule, Coppe	er	3019 3025	Insulator Cover	
Extension Arm		2211	Grid, Equimat Ground Set		3015	Insulator Cradle	
Extension Arm,			Ground Set Te	ster	2474	Insulator Cradle	
Extension, Secti	onal Stick	2113	Ground, Static		2259		2260
Extension, Secti	onal Stick	2113	Grounding Set		4157	Insulator Fork	2119
Extension, Tree	Trimmer	2158	Grounding Sin	nulator	3024		
The second secon							



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-14 September 2012

TOOLS ALPHABETICAL INDEX

Catalog		Catalog			Catalog		
Number	Page		Page		Number	Page	
Insulator Fork,		Link Stick			Plug, Telescopin	g Tool	2108
Adjustable	2122	Head		2121	Pointed Disconn	ect	2123
Insulator Retainir		Hoist		1107	Pole		
Insulator Tool, Pla		Roller		2252	Clamp		2206
Jaw Holder, Grip-		Spiral		2252	Clamp, Adjust	able	2253
	2102	Strain		2252	Cover		2404
Jaw, Grip-All Clar		Suspension		2261	Epoxiglas		2508
J-Hook Assembly		Load Looker Amr		2476	Strap		2557
Jib Adapter Jib Extension	4153, 72, 78, 82 4157	Load-Pickup Tool Locating Pin		2309 19-2120	Tong Top Cover		1256 2406
Jib Extension, Wi		Lockbar, Grip-All			Pike		1256
JID EXCENSION, VVI	4158	Lockbai, drip Aii	-	2102	Pole & Ferrule	Telescor	
Jib, 3" Round	4186	Lubricant, Dry Fil		2507		,	2108
Jib, 4" Square	4187-4188	Lubricant, tool		2507	Wrench		1256
Jumper Cable	2303	Lug, Elbow Conn		3015	Positive Grip Cla	mpstick	
Jumper Cable Sup	oport 2307	Mast and Brace		2210	Post Insulator Co		2406
Jumper Clamp	2302	Mast Assembly	41	54, 4167	Power-Fuse Lift	Stick	2114
Jumper Set	2305-2308	Material Handler		1156	Probe		
Jumper Terminal		Material Handler			Angle		2452
Keeper	4169-4170	Mirror, Clear Vision		2119, 22	Shepherd Hoo	ok	2455, 60,
Kit, Button and S		Moisture Eater II		2503	246	2-2464, 2	
Kit, Ladder Suppo		Moisture Eater II		2504	Straight	•	155, 2460,
Kit, Universal Too		Monitor, Boom		2478		2-2464, 2	
Klik Pin	2253, 2353	Monitor, Ladder			Grounding Ell		3015
Knife, Skinning	2122	Married Illanda Davi		2355	Pruning Saw		1, 21, 58
Knocker	2119, 2125	Mount, Hitch-Red		1156	Puller, Cotter Ke	ey .	2124
Ladder	\ ari=antal Tayyar	Mount, Truck, Sw			Pulling Eye	1	1260
Attachment, n	orizontal Tower 2354	Mounting Bracke Multi-Range Volt		1203	Punch-Lok Band Punch-Lok Tool		1259 1259
Attachment, Ve		widiti-italige voit		64-2466	Rack, Tool Stora	an an	2509
Attachment, ve	2354	Nut, Molly Jack,	24	04-2400	Railing, Platforn		2357
Attachment, Ve		Grip-All Clamps	stick	2102	Ratchet		2337
, tetacimient, v	2354	Pad, Climber		2560	Cable Cutter		2152
Clamp	2354	Paint Brush		2121	Ratcheting Ca	ble Cutte	
Ladders	2352-2353	Parking Bushing			Wrench 211		
Leakage Currei	nt Monitor	3		3015	Reel, Storage		3023
J	2355	Phasing Tester			Reel, Take-Up		1156
Monitor	2478	Phase Rotation	Tester	2459	Removal Tool, A		
Support Kit	2354	Phasing Tester,			Replacement Ha	ardware, (Cutters
Platform	2358			2457			2-2153
Service	2358	Phasing Tester,			Replacement To	ol, Arc Sn	
Spliced	2353	D'I D I		2458			2105
Swivel Hook	2352	Pike Pole		1256	Resistors	T	2459
Three Rail Yoke Assembly	2353 2354	Pin Holder		2110 20	Resistors, Phasir		2-2455
Lanyard and Pin		Drive Lock		2119, 20 2108	Retainer, Telesco		
Lanyard, Fall Arre		Eye		2353	Retainer, relesco	philig loc	2108
Latch, Wireholde		Grip-All Clamp		2102	Rigid Splice		2508
Latch Kit, Rope B		Groove, Grip-A			Ring, Assist		2103
Latch, Grip-All Cl		C. 5515, C	•	2102	Rivet, Drive,		2.03
Leakage Current		Klik		2353	Grip-All Clam	ostick	2102
Lever Lift	2208				Rod, Temporary		3023
Lever Type Wire	Cutter 2157	Wireholder		4169, 70	Roll Pin, Wireho		4169, 70
Lift Hook Assemb	oly 3018	Pistol Grip Handle	e	2122	Roll Pin,		
Lift Hook Extensi		Pivot Base, Platfo	rm	2357	Grip-All Clam	pstick	2102
Line Fault Locato		Platform			Roller		4169
Line Hose	2411	Aerial		2356	Roller Axle		4169
Line Hose Bag	2512	Epoxiglas Insul		2356	Roller Axle		4170
Line Hose Couple		Ladder		2358			
Lineman's Tool Ba	ag 2512	Mounting Atta					
		Pivot Base		2357			
		Railing Suspension		2357 2357			
		Utility		2357			
		Pliers, All-Angle		19, 2125			
		,					



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 10-15



Catalog Number	Page		Catalog Number	Page		Catalog Number	Page	
Roller Link Sti	ck	2252	Spreader Bar		2354	Swivel		
Rope		1252	Spring			Base Truck N		1155
Composite I		1252	Compression,	Grip-All		Boom (Stand		
Lock Assem		2404			2102		/ Duty)	1204
Lock Device		1154, 58	Jaw, Grip-All	Clampstic		Bracket	1	155, 4156
Sheave Asse	embly	4154, 73,	6		2102	Stick	Objective services	2354
Dalu Daman		78, 82	Latch, Grip-A	II Clamps		Wireholder .	JID EXTENSI	
Poly-Dacron		1252			2102	Mira Tana		4157
Polypropyle		1252	Latch Kit Blo	ck	1252	Wire-Tong	on	2205 2255
Snubbing Bi Rotary Blade		2207	Latch Kit, Blo		1253 2108	Take-Up Trunio Tarpaulin	ווכ	2510
Notary blade	ile Stick il	2123	Telescoping T Static Ground	001	2259	Teleheight		2474
Rotary Prong	Tie Stick H		Stick, Adjustabl	e	2110	Telescoping M	easuring/F	
notary rrong	THE SHEKT	2122	Stick, Swivel	_	2354	Tool	casaring/ E	2109
Rotating Grou	ınd	3029	Stirrup, Wire-To	na	2207, 09	Telescoping To	ol	2107
Rubber Glove		2657-2660	Storage Bag		510-2511,	Temporary	.	,
Rubber Sleeve		2661			153, 3021	Conductor S	upport	2211
Rule, Folding		2120	Storage Bag, St			Cutout Tool		2311
Saddle, Wire-	Tong 2	2206-2207	5 5.		106-1107	Ground Rod		3023
Safety Stop,			Storage Caniste	r, Blanke	t	Load Discon	nect Tool	2312
Grip-All Cla	mpstick	2102		24	409-2410	Tension Puller		
SafetyShield		2129	Storage Case, T	rouble Sh	ooter Kit			264, 2313
Screw Driver		2119, 21			2111	Tension Puller,		2264
Screw,			Storm Tool		2122	Terminal Block		3022
Grip-All Clam		2102	Strain			Terminal, Grou		3021
Screw, Telesco			Carrier		2254	Terminal, Jum		2304
Sentinel Leaka	age Currer		Jack		2253, 57	Tester, Hot Stic		
6		2355	Link Stick		2252	T D D		477, 2507
Service Ladde		2358	Pole		2257	Three-Phase B		
Set, Insulated			Pole, Adjusta	bie	2253	Thurs Dhass D		161-4162
Cat Inculated		2306-2307	Strap		1202	Three-Phase B		4153
Set, Insulated	by-Pass Ju	2307	Binder Climber		1202 2560	Thumbscrew (Jiiversai/	
Set, Jumper		2305, 08	Hoist		1106, 07	Tool) Tie		2108, 18
Shepherd Hoo	پر 2110 تا		Pole		2557	Stick		2115
Shield, Weath		1155	Stud		2337	Stick Head, I	Fixed Blad	
Silicone Wipes		2505	Grounding, B	all-and-S	ocket	Stick Head, I		
Silicone Lubrio		2505	G. Ga. a		3013	Tie-Back Cla		2313
Aerosol		2514	L		3017	Wire Claw		2126
Simulator, Gro	oundina	3024	Support		3021	Tightener Whe	eel	2207
Skinning Knife		2122	Tee		3017	Tong, Pole		1256
Sleeve Bag		2513	Substation Barr	ier		Tool		
Sleeves, Rubb	er	2661	2406			Hanger		2509
Sling		1255	Suit, Conductive	e	2553	Lubricant		2507
Slotted Blanke	et, Class 4	2409	Super Tester		2468	Storage Racl	k	2509
Snapout Cotte	er Key Ren	nover	Super Tester Ad	lapter 2	2124, 2468	Trailer		2515
		2120	Support		44.55	Tension Pull	er Switchir	-
Socket Set	_	2116	Arm		4168			2313
Socket, Deade		2255	Conductor		2213	Torque Extens		2116
Socks, Conduc		2553	Hook		2260	Tower Harness	i	2558
Solid Blanket,		2410	Jumper Cable		2307	Trailer, Tool	1-	2515
Solid Blanket,		2409	Stud		3021	Tree & Rope H	оок	2123
Spiral Conduc		2407	Suspension Insulator Lift	Tool	2265	Tree Trimmer Tree Trimmer I	Joad .	2111, 58
Spiral Disconn Spiral Link Sti		2119, 23 2252	Link Stick	1001	2265 2261	Sectional Sti	•	2113
Splice, Ground			Platform		2357	Trolley Pole	CK	2113
Splice, Ground	anig Cable	2508	Switching Tool,		2331	Trolley Wheel		2263
Spince, Migid		2300	Tension Pulle		2264	Trouble Shoot	er Kit	2111
			ichision i une	•	LLUT	Truck Groundi		023, 4157
						Truck Safety B		•
						Trunion Gauge		2255
						Trunion, Take-		2255
						Tube, Telescop		2108
						•	-	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 10-16 September 2012

TOOLS ALPHARETICAL INDEX



Page

TOOLS ALPHA	BETICAL	. INDEX		
Catalog Number	Page		Catalog Number	Page
Universal Adapter Bracket Cutout Tool Fitting Head Head Kit, Plas Pole Pole, Plastic Fi Stick, Sectiona Tool Kit Utility Head Utility Head Utility Platform Vertical Ladder Voltage Tester, Underground Tra W Key Tool Weather Shield Wet/Dry Hot Stic Wheel Tightene Wiping Cloth Wire Grip Wire Holder Wire Holder Cla Wire Holder Cla Wire Holder Stirrup Swivel Wire Tong Band Clamp Clevis Pole Clevis Saddle Saddle Extens Stirrup Swivel Wire Tong Wireholder Wireholder, Head Wireholder, Head Head, Flexible Flexible Insula Pole Ratchet	210 210 210 attic itting al Attachmen ansformer 24 ansfor	2354 2470 2124 155, 4156 177, 2506 2207 2503 1260 211, 4154	Yoke Assembly, (Assembly, (Assembly, (Assembly, S H-frame Cr Ladder Ass Steel Arm	Compression 2255 Conductor End 2255 Structure End 2255 cossarm 2262 embly 2354 2262 er, Single Pole 2256

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 10-17



RATCHET HOISTS

User-friendly operation and construction.

Experienced operators prefer Chance lever hoists for longterm, dependable performance. Lightweight for simple handing, but rugged for reliable duty, Chance hoists deliver features with added value for operator productivity.

Specifications

- Each unit comes with illustrated operating manual, including complete parts list
- Lifetime oil-impregnated bronze-sleeve bearings require no additional lubrication
- Pliers and screwdriver are only tools needed for maintenance
- For infrequent repairs, kit C3090349 contains minor service parts common to all ratings





Accessories

Insulated Link Sticks	Page 1107
Hot Line Wire Grips	. Section 1250
Wire Puller Hook	Section 1250

Operation





- Easy hook-up and chain release to freewheel, under noload conditions
- Controls automatically lock when hoist is pulling load
- Two simple levers Shift Key for up and down on top of housing, and Release Key in handle recess – are easy to switch, even wearing gloves
- Easily ratchets one or two clicks per stroke in up or down mode
- Choose quick speed, or full- or half-link rate for added accuracy
- Ratchet handle swings to either side for cramped quarters and push or pull stroke operation
- Top and bottom hooks swivel 360° for rope unwinding or stranded cable under tension

Construction

- Easy operating controls, even without removing gloves
- Proof-tested and factory operated at 150% of capacity rating
- Simple, extremely sturdy engineered design ensures dependable service backed by 40 years of field experience and laboratory tests
- Lightweight, high-strength handle and sheave housings are heat-treated aluminum
- All working parts are fully enclosed in the housing unit for operator safety
- High-strength alloy steel chain is polished for smooth action and low wear
- Load hooks are forged steel with automatic spring-loaded latches
- Two-way handle allows for easy access and operation overhead or below chest level
- Rounded stop on handle end helps to ensure firm operator grip

Rated-Load Capacities, Tons

Hoist Selector Chart	3/4	³ /4- 1 ½	1	1 ½	2	3	4 ½	6
Link-Chain Hoists 7 models	Page 1103		Page 1103	Page 1103	Page 1103	Page 1104	Page 1104	Page 1104
Roller-Chain Hoists 2 models	Page 1105			Page 1105				
Nylon-Strap Hoists 7 models		Page 1106	Page 1107		Page 1107			

"THE FULL LINE" OF 16 MODELS

The ratchet hoist team to trust.

Chance ratchet hoists' seven capacity ratings are designed for a wide range of industry requirements for load-handling equipment.

Operation

- Compact and portable hoists operate easily, even in tight work spaces
- Quickly and easily perform repeated heavy lifts and pulls
- Built for years of reliable performance

Construction

- Chain hoists offer either link- or roller-style chain in seven popular ratings
- Nylon-strap models are primarily for the utility industry and a variety of load ratings
- Lightweight, yet durable designed for rugged construction and industrial settings



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1102 July 2014

RATCHET CHAIN HOISTS

 $\frac{3}{4}$ -Ton, 1-Ton, 1 ½-Ton & 2-Ton Ratings

Link-Chain Style

A strong link to reliable performance.

Construction

- Proof-tested and factory operated at 150% of capacity
- Lightweight, high-strength handle and sheave housings are heat-treated aluminum
- All working parts are fully enclosed in the housing unit for operator safety
- High-strength alloy steel chain is polished for smooth action and low wear
- Load hooks are forged steel with automatic spring-loaded
- Two-way handle allows for easy access and operation overhead or below chest level
- Rounded stop on handle end helps to ensure firm operator grip.

Operation

- Easy hook-up and chain release to freewheel, under noload conditions
- Controls automatically lock when hoist is pulling load
- Two simple levers Shift Key for up and down on top of housing, and Release Key in handle recess - are easy to switch, even wearing gloves
- Easily ratchets one or two clicks per stroke in up or down
- Choose quick speed, or full- or half-link rate for added accuracy
- Ratchet handle swings to either side for cramped quarters and push or pull stroke operation
- Top and bottom hooks swivel 360° for rope unwinding or stranded cable under tension

DO NOT:

- 1. LIFT MORE THAN RATED LOAD.
- 2. OPERATE WITH TWISTED OR DAMAGED CHAIN.
- 3. USE IF DAMAGED OR MALFUNCTIONING.
- 4. LIFT PEOPLE OR LOADS OVER PEOPLE.
- 5. USE A HANDLE EXTENDER (CHEATER BAR).
- 6. OBSCURE THIS LABEL.

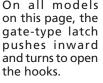
DO: SEE OPERATING INSTRUCTIONS OPERATE AND MAINTAIN PER ANSI B30.21 HUBBELL POWER SYSTEMS, INC. • CENTRALIA, MO 65240

Specifications

- Each unit comes with illustrated operating manual, including complete parts list
- Lifetime oil-impregnated bronze-sleeve bearings require no additional lubrication
- Pliers and screwdriver are only tools needed for maintenance
- For infrequent repairs, kit C3090349 contains minor service parts common to all ratings
- 5-1/2 ft. Standard Lift Distance
- 20-in. handle/Aluminum housing









1-Ton

Two-way handle swings to either side (helpful when reaching overhead or below chest level to operate hoist). Rounded stop at end helps keep hand on handle.

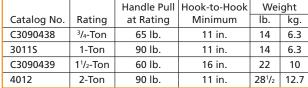


3/4-Ton





ook-to-Hook	Weight			
Minimum	lb.	kg.		
11 in.	14	6.3		
11 in.	14	6.3		
16 in.	22	10		





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



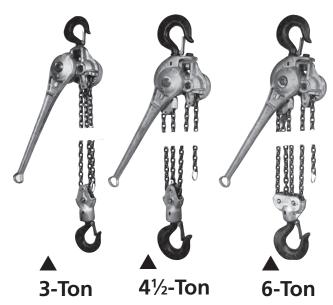
RATCHET CHAIN HOISTS

3-Ton, 4 ½-Ton & 6-Ton Ratings

Link-Chain Style

Heavy-duty performance by design.

Link-style chain offers three effective load-rating options.







Each unit bears a safety-instruction label in accordance with ANSI specifications, below.

DO NOT:

- 1. LIFT MORE THAN RATED LOAD.
- 2. OPERATE WITH TWISTED OR DAMAGED CHAIN.
- 3. USE IF DAMAGED OR MALFUNCTIONING.
- 4. LIFT PEOPLE OR LOADS OVER PEOPLE.
- 5. USE A HANDLE EXTENDER (CHEATER BAR).
- 6. OBSCURE THIS LABEL.

DO: SEE OPERATING INSTRUCTIONS.

OPERATE AND MAINTAIN PER ANSI B30.21

HUBBELL POWER SYSTEMS, INC. • CENTRALIA, MO 65240

		Handle Pull	Hook-to-Hook	We	ight
Catalog No.	Rating	at Rating	Minimum	lb.	kg.
C3090440	3-Ton	60 lb.	19³/₄ in.	301/2	13.8
C3090441	4 ¹ / ₂ -Ton	70 lb.	24¹/₂ in.	47	21.2
C3090442	6-Ton	70 lb.	24¹/₂ in.	50	22.5

Construction

- Proof-tested and factory operated at 150% of capacity rating
- Lightweight, high-strength handle and sheave housings are heat-treated aluminum
- All working parts are fully enclosed in the housing unit for operator safety
- High-strength alloy steel chain is polished for smooth action and low wear
- Load hooks are forged steel with automatic springloaded latches
- Two-way handle allows for easy access and operation overhead or below chest level
- Rounded stop on handle end helps to ensure firm operator grip



Two-way handle swings to either side (helpful when reaching overhead or below chest level to operate hoist). Rounded stop at end helps keep hand on handle.

Operation

- Easy hook-up and chain release to freewheel, under no-load conditions
- Controls automatically lock when hoist is pulling load
- Two simple levers Shift Key for up and down on top of housing, and Release Key in handle recess – are easy to switch, even wearing gloves
- Easily ratchets one or two clicks per stroke in up or down mode
- Choose quick speed, or full- or half-link rate for added accuracy
- Ratchet handle swings to either side for cramped quarters and push or pull stroke operation
- Top and bottom hooks swivel 360° for rope unwinding or stranded cable under tension

Specifications

- Each unit comes with illustrated operating manual, including complete parts list
- Lifetime oil-impregnated bronze-sleeve bearings require no additional lubrication
- Pliers and screwdriver are only tools needed for maintenance
- For infrequent repairs, kit C3090349 contains minor service parts common to all ratings
- 5-1/2 ft. Standard Lift Distance
- 20-in. handle/Aluminum housing



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1104 July 2014

RATCHET CHAIN HOISTS

3/4- & 1 1/2-Ton Ratings

Roller-Chain Style

The efficient way to give productivity a lift.

Roller-style (bicycle) chain offers two effective loadrating options from our link-style chain hoist line.

Construction

- Proof-tested and factory operated at 150% of capacity rating
- Lightweight, high-strength handle and sheave housings are heat-treated aluminum
- All working parts are fully enclosed in the housing unit for operator safety
- Two-way handle allows for easy access and operation overhead or below chest level
- Rounded stop on handle end helps to ensure firm operator grip

Operation

- Easy hook-up and chain release to freewheel, under no-load conditions
- Controls automatically lock when hoist is pulling load
- Two simple levers Shift Key for up and down on top of housing, and Release Key in handle recess – are easy to switch, even wearing gloves
- Easily ratchets one or two clicks per stroke in up or down mode
- Choose quick speed, or full- or half-link rate for added accuracy
- Ratchet handle swings to either side for cramped quarters and push or pull stroke operation
- Top and bottom hooks swivel 360° for rope unwinding or stranded cable under tension

Each unit bears a safety-instruction label in accordance with ANSI specifications, below.

OO NOT

- 1. LIFT MORE THAN RATED LOAD.
- 2. OPERATE WITH TWISTED OR DAMAGED CHAIN.
- 3. USE IF DAMAGED OR MALFUNCTIONING.
- 4. LIFT PEOPLE OR LOADS OVER PEOPLE.
- 5. USE A HANDLE EXTENDER (CHEATER BAR).
- 6. OBSCURE THIS LABEL.

DO: SEE OPERATING INSTRUCTIONS.

OPERATE AND MAINTAIN PER ANSI B30.21

HUBBELL POWER SYSTEMS, INC. • CENTRALIA, MO 65240

		Handle Pull	Hook-to-Hook	Wei	ght
Catalog No.	Rating	at Rating	Minimum	lb.	kg.
C3090457	³/₄-Ton	65 lb.	13 in.	12½	5.6
C3090458	1 ¹ / ₂ -Ton	60 lb.	26 in.	22	10



Both top and bottom hooks swivel 360° to allow for unwinding action of rope or stranded cable under tension.



Two-way handle swings to either side (helpful when reaching overhead or below chest level to operate hoist). Rounded stop at end helps keep hand on handle.

Specifications

- Each unit comes with illustrated operating manual, including complete parts list
- Lifetime oil-impregnated bronze-sleeve bearings require no additional lubrication
- Pliers and screwdriver are only tools needed for maintenance
- For infrequent repairs, kit C3090349 contains minor service parts common to all ratings
- 5-1/2 ft. Standard Lift Distance
- 20-in. handle/Aluminum housing



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 1105



Convertible Strap Hoists

Versatile options for your toughest challenges.

Designed with special features, two hoist options offer a choice for maintenance and construction.

Construction

- For standard duty or electric-utility rubber-glove procedures, select regular style
- For hotstick operations, select hoist with handling ring on the handle
- Lightweight for easy handling, both styles are ruggedly designed for heavy-duty applications

Operation

- · Adapts immediately to varying field needs
- Adds 3 feet of lift-distance capability when rigged at the lower rating
- To rig hoist for higher rating, keep load-hook sheave mounted midway on strap when it is becketed (doubled, with the end of strap secured to hoist frame)
- To convert to lower rating, secure the load hook sheave through loop in strap free end



* ³/₄ – 1½ Ton Nylon-Strap Hoists

Catalog No.	Hoist Description	Weight
PSC3090451	Rubber-Glove Style	12 ¹ / ₂ lb./5.4 kg.
PSC3090452	Hotstick Hooks & Handle Style	13 ¹ / ₂ lb./6 kg.
PSC3090663	All-Hotstick Style	13 ¹ / ₂ lb./6 kg.

*These hoists are not insulated live-line tools. If working on energized electrical lines, these hoists must be used with appropriate length insulating link sticks (see page 1107).

One Model: 3/4- & 11/2-Ton Ratings 3 Styles: For Rubber-Glove & Hotstick Work



Automatic springloaded latches on 360° swivel forgedsteel hooks, two places.

Heat-treated aluminum-alloy frame – open design for easy cleaning in mud or ice.

Interlocking pawls for sure control without brakes that can slip.

Safety-orange 30" x 11/4" Epoxiglas® insulated handle, Plastisol end cap seals out dirt.

Rigged for higher rating (above): Rubber-Glove Style with operating rings on hooks and latches.

To change rigging, simply remove split ring from load-hook sheave. Longer reach when rigged for lower rating gives 7-foot lift distance using load-hook sheave secured at strap end.

Photo at below right shows rigging for lower rating on Hotstick Style with operating rings on Hooks, latches and Handle.



Both the PSC3090451 & PSC3090452 models also feature:

- Take-up wheel with cogs for hand operation and holes for hot stick operation.
- Easy-access Shift and Release Keys operate by hotsticks or by hand, even with gloves.

Accessories

Catalog No.	Description	Weight
C3060000	Storage bag for strap hoist	¹ / ₈ lb./0.05 kg.





Nylon-Strap Ratchet Hoists

1-Ton & 2-Ton Ratings

Handle even the toughest jobs.

Designed with special features, both 1-ton and 2-ton hoists offer a choice of two handle options for utility maintenance and construction.

Construction

• For rubber-glove work, select hoist with plastisol cap on handle end

 For operation by hot-line tools, select hoist with swivel eye on handle end

· All models have hot-stick rings on hooks and latches

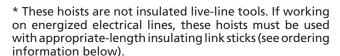
Operation

- Single strap of 1-ton units reaches and lifts farther
- 2-ton units employ a sheave-mounted hook in a doublestrap becket

Specifications		
10,000-lb. single-		
	1-Ton Hoist	2-Ton Hoist
Hook-to-Hook Distance:		
Minimum	27 in	27 in.
Maximum	8 ft	6 ft.
Standard Lift Distance	5 ft. 9 in	3 ft. 9 in.
Handle Length	22 in	36 in.

Safety tips from label on hoist handles:

- INSURE HOOK-TO-HOOK PULL IS IN A STRAIGHT LINE AND DOES NOT EXCEED THE LOAD RATING STAMPED ON THE HANDLE.
- DO NOT PERMIT HANDLE TO SELF-RATCHET.
- DO NOT HANG, BOUNCE, OR EXCEED 200 POUNDS FORCE ON HANDLE.
 DO NOT REPLACE HANDLE WITH A LONGER HANDLE OR USE AN EXTENSION ON HANDLE.
- DO NOT USE HOIST AS A LOAD BINDER.
- CLOSE LATCHES ON SAFETY HOOKS BEFORE USING.

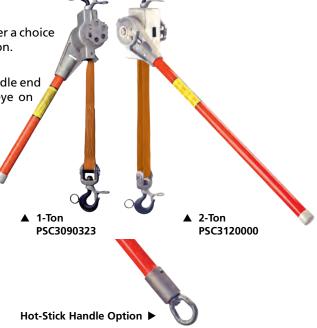


Epoxiglas® Crossarm Link Stick

For Deadend Applications



July 2014



*1-Ton Nylon-Strap Hoists and Accessories

Catalog No.	Description	Weight
PSC3090323	Hoist with Regular Handle	12³/4 lb./5.7 kg.
PSC3090467	Hoist with Hot-Stick Handle	13³/4 lb./6.2 kg.
C3060000	Storage Bag for either 1-Ton Hoist listed above	¹ / ₈ lb./0.05 kg.

*2-Ton Nylon-Strap Hoists and Accessories

Catalog No.	Description	Weight
PSC3120000	Hoist with Regular Handle	14 ¹ / ₂ lb./6.5 kg.
PSC3090468	Hoist with Hot-Stick Handle	15 ¹ / ₂ lb./7 kg.



Quickly puts insulated link in hoist-assisted jobs:

- 1-1/4"-diameter Epoxiglas® pole with 21-1/2" insulating length
- Plastisol-coated 3/4"-diameter steel hook
- Hook's 5" opening fits standard 3-3/4" x 4-3/4" crossarms
- Galvanized-steel swivel eye on pole end for easy alignment
- Lifting eye on hook fitting for positioning by a hot line tool

Rated working load: 1,500 lb.

Catalog No.	Description
PSC4004132	Crossarm Link Stick

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 1107



Epoxiglas® Hoist Link Sticks

Easily adapts to hot-line uses

To permit hot-line work with a nylon-strap ratchet hoist, a properly applied link stick insulates the hoist from an energized conductor.



Construction

- 1 ¼"-diameter Epoxiglas pole with a steel hook on one end
- Features butt swivel on end opposite of steel hook

Operation

- Attach the hook of the stick to a wire grip using the hotstick eye to operate hook
- Complete application by connecting nylon-strap hoist to link stick butt swivel and to pole or crossarm

Rated working load: 4,000 lb.

Catalog No.	Length between end fittings	Weight
C4001175	15" Epoxiglas	4 lb./1.8 kg.
C4002399	18" Epoxiglas	5 lb./2.25 kg.
C4002400	24" Epoxiglas	6 lb./2.7 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1108 July 2014

CHANCE®

Series 90 Capstan Hoists

• 1,000-lb. & 3,000-lb. Load Ratings • 12V, 115V, 230V, Hydraulic, Gasoline Powerful design for tough jobs.

Improved design features a multiple-planetary drive/backstop clutch assembled on the center shaft of a steel gearcase with full-length internal teeth. This design handles more rugged jobs, extends service life and reduces maintenance.







Optional Rope Lock – At left: Automatically supports load when fall line is released, until operator resumes hoisting. At right: The release lanyard permits lowering or lifting load with precise control over speed and distance.







For improved load control, steel capstan drum features nickel-plated rope surface, larger radius at load-line wrap and rope hook. Position fall line so it will not pullover end of drum. If rope comes off end of drum and hook catches it, stop hoist, secure load and correct rope position on drum.

— TABLE OF CONTENTS -

Versatile to various applications

Lightweight, powerful portable hoists move heavyweight and difficult-access tasks, including:

- Setting utility poles
 Cell tower erection
- Pulling wheeled equipment over obstacles
- Raising transformers (even over fences in back lots)
- Hoisting heavy insulators
- String and tensioning conductors
- Pulling indoor and underground cable

Simple technique eases all loads

- Graph and diagram at right show capstan principle in action
- Operator effort remains low for typical loads simply by adding wraps on capstan drum
- Such little effort is required, any crew member can run hoist

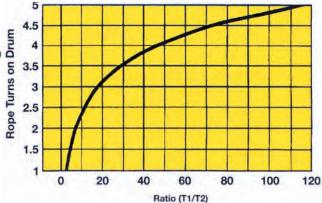
Example: 4 wraps of rope = 1:44 ratio.

That is, 1 lb. pull on Fall Line develops 44 lb. on Load Line. Therefore, 20 lb. of pull develops 880 lb. of lift.

1,000-lb. Hoists and Accessories . . . Pages 1153 - 6 3,000-lb. Hoists and Accessories . . . Pages 1157 - 8

- Highly-accurate controls allow loads to be moved a fraction of an inch
- Note: Always use at least as many wraps of rope on the drum to lower a load as required to lift that load

Mechanical Advantage of Series 90 Hoists





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1152 November 2013

Series 90 Capstan Hoists



1,000-lb. Load Rating

Electric Drive

12-Volt DC Power Hoist

with 25' #2 Cu Cable, four Terminals, Relay, Foot Switch

Catalog No.	Weight, each
C3081172	56 ¹ / ₂ lb. (25.7 kg.)

115-Volt AC

includes Power Hoist and Foot Control Switch only

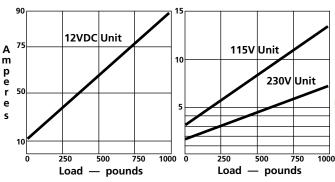
C3081170	49 lb. (22.2 kg.)
C3001170	43 ID. (22.2 Kg.)

230-Volt AC

includes Power Hoist and Foot Control

C3081171	49¹/₂ lb. (22.5 kg.)
----------	----------------------

Electrical source requirements





Four ¾" mounting bolts furnished with each unit. Mounting flange provides eight ¾" tapped holes on 5½" bolt circle.

Hydraulic Drive

includes Power Hoist only;

To order Foot Control Switch, see next page.

Catalog No.	Weight, each
C3081180	28 ¹ / ₂ lb. (12.9 kg.)



Hydraulic-drive hoist does not include foot control switch.

Gasoline Drive

includes Power Hoist and Foot Throttle Control only Recommended bracket: C3080925, see next page.

Catalog No.	Weight, each
C3081190	46 lb. (20.9 kg.)

Series 90 Hoist	Rope Speed for 1,000 lb. load	Source Required to meet Rope Speed Rate
12-Volt DC	22 feet per minute	90 amperes motor current
115-Volt AC	40 feet per minute	14 amperes motor current
230-Volt AC	21 feet per minute	7 amperes motor current
Hydraulic	93 feet per minute	8 gal. per min. & 1,000psi
Gasoline	40 feet per minute	Engine speed: 7,000rpm

Gasoline unit features 35 cubic-centimeter 4-cycle engine.



Operating speed at full rating

For continuous lift or pull at maximum rating (1,000 lb.) with a 20% duty cycle, table at left highlights information for each power-drive type:

- Rate of lift or pull (rope speed)
- Power output needed (source, minimum)

Recommended rope for capstan hoists

 Poly-Dacron or Composite Fiber Braided (consists of polyester fibers) Shown in Chance Catalog Section 1250

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



November 2013 Page 1153



Series 90 Capstan Hoists

Options and Components for 1,000-lb.-rated hoists

All-Purpose Bracket

 For 1,000-lb. Series 90 hoists
 Includes two E3081334P chain clamps for poles, angles, and beams

Catalog No.	Weight, each
C3081335	26.5 lb. (12 kg.)

Bolt-Down Bracket

- For 1,000-lb. Series 90 hoists
- Same as above, except does not include chain clamps

E3081321P 9 lb. (4.09 kg.)

Capstan Drum

- For 1,000-lb. Series 90 hoists
- · Replacement, does not include mounting bolt or washer

E3081327P	7 lb. (3.18 kg.)
-----------	------------------

Universal Bracket

- · Recommended for gasoline 1,000-lb. hoist
- Also fits other 1,000-lb. Series 90 & earlier 750-lb. hoists
- Bolts down or uses two C4170346 Chain Clamps (below) for mounting on poles, angles and beams

C3080925	13 lb. (5.9 kg.)

Chain Clamp

- · For Universal Brackets only
- One per Cat. No., two required for C3080925 Bracket

C4170346 71/8 lb. (3.2 kg.)

1,000-lb. Bolt-Down Bracket E3081321P





Chain Clamp C4170346 (Chains are 85" long.)



Universal Bracket C3080925 Recommended for Gasoline hoist

Rope Lock Device C3080856 Must be ordered as a separate item. Includes 2 mounting bolts, washers and release lanyard. Accepts $\frac{1}{3}$, $\frac{5}{6}$ and $\frac{3}{4}$ rope.

Hydraulic **Foot Control** C3080685





Wheel handles on chain binders

make tightening easy.

clamps to form a 90° attachment shoulder.



To fit poles to 23" in diameter, chain clamps pivot to automatically adjust.

Chain Clamp E3081334P (Chains are 72" long.)



Chain Clamp

for Series 90 hoists

One per Cat. No.; for All-Purpose or Bolt-Down Brackets

E3081334P 6 lb. ((2.7 kg.)
-------------------	-----------

Rope Lock Device

for Series 90 hoists

31/2 lb. (1.59 kg.)

Includes mounting bolts and washers

C3080856	2 lb. (0.9 kg.)

Foot Controls for Series 90 hoists for 12-Volt DC drive

C4176145 for 115- and 230-Volt AC drive

IOI 113- and 230-voit AC drive		
C4170337	4 lb. (1.81 kg.)	
for Hydraulic drive		
C3080685	24 lb. (10.9 kg.)	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1154 November 2013



Swivel-Base Truck Mount

for 12V, 115V & Hydraulic 1,000-lb. Series 90 Capstan Hoists

Sets at angles needed for variety of jobs

- Turntable design permits proper alignment without repositioning service vehicle
- Heavy-gauge steel base bolts directly to truck body wherever convenient
- Bracket can be pinned at 15-degree interval around circular base for: stringing, tensioning, and sagging conductors; pulling in cable; hoisting equipment; setting poles; and pulling vehicles

WARNING

This is not a personnel lifting device. A label on the unit warns against lifting people or loads directly above people.

To store hoist on C-bracket, simply remove four bolts. The C-bracket also can be bolted down for fixed-angle.

Utilize truck as portable power source

- Only 12V, 115V, 230V and Hydraulic 1,000-lb.-rated hoists are recommended for truck mounting
- See page 1153 to order



Swivel Bracket C3080903

Swivel Bracket only

Catalog No.	Weight, each
C3080903	18 lb. (8.1 kg.)

C-Bracket C3080890



C-Bracket only — complete with mounting bolts

C3080890 5 lb. (2.25 kg.)

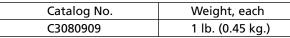


Swivel-Base Truck Mount T3081506

Swivel Base Truck Mount (Assembled Swivel Bracket and C-Bracket at right)

Catalog No.	Weight, each
T3081506	23 lb. (10.35 kg.)

Weather Shield for 12-Volt DC hoist only complete with band clamp



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



November 2013 Page 1155

CHANCE®

Hitch-Receiver Mount for Swivel-Base Mount

for 12V, 115V, 230V & Hydraulic 1,000-lb. Series 90 Capstan Hoists Quick and convenient, fits 2"-square towing receivers

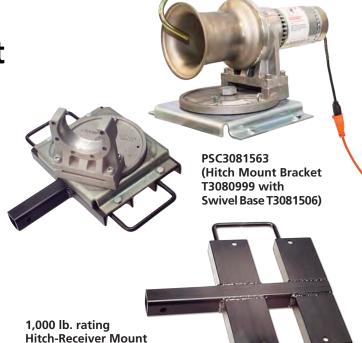
- Faster than any other method, job-ready mount puts capstan hoist in right position for pulling, stringing, and lifting jobs
- With hoist stored on it, mount's square tube simply inserts and pins in any 2"-square receiver of a Class III or IV towing hitch

Specially designed for swivel-base mount

- T3080999 Hitch-receiver Mount features hole pattern specifically designed to fit Swivel-Base Mount T3081506 (for more details see page 1155)
- Swivel mount's turntable design permits proper alignment without repositioning service vehicle
- Swivel mount permits pinning bracket at every 15-degree interval around circular base for: stringing, tensioning, and sagging conductors; pulling in cable; hoisting equipment; setting poles; and pulling vehicles

Utilize truck as portable power source

- Hitch-Receiver Mount is rated at 1,000 lb. to correspond with ratings of capstan hoists for which it is intended
- Only 12V, 115V and Hydraulic 1,000-lb.-rated hoists are recommended for truck mounting
- See page 1153 to order



as furnished		, C	
Catalog No.	Description	We	
T3080999	Hitch Mount for	21 lb./	

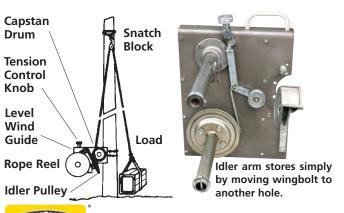
L	Catalog No.	Description	Weight
	T3080999	Hitch Mount for	21 lb./9.56 kg.
l	13000333	Capstan Hoist	21 10.75.50 kg.
	PSC3081563	Hitch Mount with Swivel	62 lb/20 1kg
	P3C3U81303	Base	62 lb/28.1kg

MATERIAL HANDLER SPECIAL APPLICATION

For AC, Hydraulic & Gasoline 1,000-lb. Series 90 Capstan Hoists (Order hoists on page 1153)

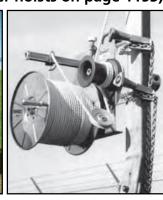
Application and Operation

- Portable system sets up fast where large vehicle-mounted equipment is impractical
- Lifts tools, apparatus, sets poles, and moves materials in warehouse or store yard
- Automatically takes up rope on reel and keeps line out of dirt
- Mounts to wood, concrete, or steel poles and anglemember structures with one bracket and two chain clamps
- Operator can keep all activity in view while controlling lift with tension-adjustment knob and hoist's foot control





T3080999



Material Handler chassis only

Catalog No.	Weight, each
C3160760	38 lb. (17.2 kg.)

Must order separately:

- C3080925 Bracket, for poles, beams or angles (page 1154):
- Two C4170346 Chain Clamps (page 1154);
- Poly-dacron or Polyester Braided Rope (Cat. Sect. 1250);
- C4170343H Take-Up Reel with handle (shown above; Capacity: 600 ft. x $\frac{1}{2}$ " rope or 1,500 ft. x $\frac{3}{8}$ " rope; Weight: 20 lb. / 9 kg.)

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Series 90 Capstan Hoists



3,000-lb. Load Rating 12V, 115V, 230V, Hydraulic, Gasoline



Electric Drive

115-Volt AC

includes Power Hoist and Foot Control Switch only

Catalog No.	Weight, each
C3081370	58 lb. (26 kg.)

Hydraulic Drive

includes Power Hoist only; To order Foot Control Switch, see page 1158.

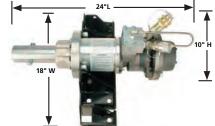
	Catalog No.	Weight
Hydraulic	C3081380	44 lb. (20kg.)

with Bayonet for Collapsible Reel by others or Removable Capstan Drum C4170341 ordered separately, page 1158.

NOTE: Includes Power Hoist only. To order Foot Control Switch, see page 1158.

	Catalog No.	Weight
Hydraulic Bayonet	C3080900	36 lb. (16.4 kg.)
Hydraulic Reversible	C3080940	100 lb. (45.36 kg.)

Reversible with Bayonet for Collapsible Reel by others or Removable **Capstan Drum** C4170341 ordered separately,

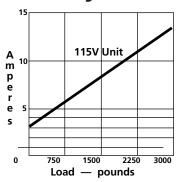


page 1158. Includes Power Hoist and Bolt-Down Bracket. To order Foot Control Switch, see page 1158.

Gasoline Drive

includes Power Hoist and Foot Throttle Control only Gasoline unit features 35 cubic-centimeter 4-cycle engine.

Catalog No.	Weight, each
C3081390	58 lb. (26.3 kg.)



Electrical source requirements

Components

- Four ½" mounting bolts furnished with each unit
- Mounting flange provides eight ½" tapped holes on 5-5/8 bolt circle
- Recommended rope for use with capstan hoists are Poly-Dacron or Composite Fiber Braided (consists of polyester fibers) as shown in Chance Catalog Section 1250

Series 90 3,000-lb. Hoist	Rope Speed for 3,000 lb. load	Source Required to meet Rope Speed Rate
115-Volt AC	12 feet per minute	14 amperes motor current
Hydraulic	30 feet per minute	8 gal. per min. & 1,000psi
Gasoline	11 feet per minute	Engine speed: 7,000rpm

Operating speed at full rating

For continuous lift or pull at maximum rating (3,000 lb.) with a 20% duty cycle, table at left highlights information for each power-drive type:

- Rate of lift or pull (rope speed)
- Power output needed (source, minimum)

Recommended rope for capstan hoists

• Poly-Dacron or Composite Fiber Braided (consists of polyester fibers shown in Chance Catalog Section 1250







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Series 90 Capstan Hoists

Options and Components for 3,000-lb.-Rated Hoists

All-Purpose Bracket

For 3,000-lb. Series 90 hoists
 Includes two E3081334P chain clamps for poles, angles, and beams

Catalog No.	Weight, each
C3081443	32 lb. (14.5 kg.)

3,000-lb. Bolt-Down Bracket E3081434P



Bolt-Down Bracket

• For 3,000-lb. Series 90 hoists

• Same as above, except does not include chain clamps

|--|

Capstan Drum for 3,000-lb. Series 90 hoists Replacement, does not include mounting bolt or washer

experience received in the second received received in the second received in the second received received

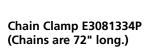


Bayonet Adapter C3080820



Capstan Drum C4170341

Removable





Rope Lock Device C3080856

Must be ordered as a separate item.
Includes 2 mounting bolts, washers and release lanyard.
Accepts 1/2, ", 5/6," and 3/4," rope.

Hydraulic Foot Control C3080685





To fit angle steel and beams, furnished bolts pin the clamps to form a 90° attachment shoulder.

Bayonet Adapter retrofits on 3,000-lb. standard
Hydraulic hoist for collapsible reel or C4170341 drum

riyaraane noise for conapsible feet of C+1705+1 aram		
Catalog No.	Weight, each	
C3080820	5 lb. (2.2 kg.)	

Capstan DrumRemovable for 3,000-lb. hoistw/bayonet; 8½" dia. x 8½" length; on and off w/out toolsC417034112 lb. (5.4 kg.)

Chain Clamp

for Series 90 hoists

One per Catalog No.

Two required for All-Purpose or Bolt-Down Brackets

E3081334P 6 lb. (2.7 kg.)

Rope Lock Device for Series 90 hoists
Includes mounting bolts and washers

C3080856	2 lb. (0.9 kg.)

Foot Controls	for Series 90 hoists
for 115-Volt AC drive	

C4170337	4 lb. (1.81 kg.)
for Hydraulic drive	
C3080685	24 lb. (10.9 kg.)
for Gasoline drive	
T3080997	2 lb. (.90 kg.)



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1158 November 2013

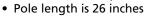


CHAIN BINDER TYPE TRANSFORMER GINS

Available in a standard-base and extended-base design, these proven Chain Binder Type Transformers Gins are versatile tools for hoisting distribution transformers and apparatus up a structure.

Features & Applications

- Standard base unit is for mounting on clear pole sections
- 5" extended-base model allows bridge mounting up to 4" x 5" crossarms
- Wheel tightener and 36" chain are part of each unit
- Standard and extended-base models feature 2000-lb. maximum ratings, including hand pull force
- 900-lb. lift load with single hoist line through a pulley on the gin and a sheave near the base of structure (lift load plus pull load equals capacity)
- Lift load can be 1,400 lbs., using 4-4 blocks





C4000090

5" Base **Standard Base**

Safety Considerations

- A swivel-hook block should always be used in the eye of the gin and a sheave or capstan near the bottom of the structure should be used to thread handline
- Gins are not intended for applications involving side pull on the hoist line or with the lift load in a taggedout position
- Load line should be parallel to the gin pole
- When calculating load capacities, allow 10 percent for friction in rope pulleys
- For example, using two double-sheave blocks, maximum lift load would be 1,400 lbs.; or, using a single sheave, maximum lift load would be 900 lbs.

CHAIN-BINDER GINS

Catalog No.	Description	Weight
C4000090	Standard Base Chain Gin	15 lb./6.75 kg.
C4000315	5" Extended Base Chain Gin	30 lb./9 kg.

Swivel-Top Chain Gin

- Same application as Transformer Gin, but top eve casting can be swiveled to bypass secondary lines, when necessary
- Cap is not intended to swivel while under load
- Gin has identical load ratings to gins above
- Features 48" Epoxiglas® mast and with two wheel tighteners and 36" chain units

Catalog No.	Description	Weight
C4000440	Swivel Top	37 lb./16.7 kg.
C4000440	5" Extended Base Chain Gin	37 lb./10.7 kg.

STRAP-TYPE TRANSFORMER GINS **Features & Applications**

- Same as Chain-Type Gins, except with a strap-type-ratchetaction mounting mechanism rather than a chain binder
- With 10,000-lb. rated tensile strength, the 2"-wide polyester strap comes in 44" length to fit most structures
- Wide handle opening on rapid-action ratchet permits easy

 Load line should be parallel to the gin pole
- load and fall-line pull



T4001937



T4001938



Safety Considerations

- A swivel-hook block should always be used in the eye of the gin and a sheave or capstan near the bottom of the structure should be used to thread handline
- Gins are not intended for applications involving side pull on the hoist line or with the lift load in a tagged-out posi-
- Both models feature 2000-lb. maximum ratings, including When calculating load capacities, allow 10 percent for friction in rope pulleys
 - For example, using two double-sheave blocks, maximum lift load would be 1,400 lbs.; or, using a single sheave, maximum lift load would be 900 lbs.

STRAP-TYPE GINS

Epoxiglas® pole: 3" diameter, 26" length

Catalog No.	Description	Weight
T4001937	Standard-Base Strap Gin	14¹/₄ lb./6.4 kg.
T4001938	5" Extended-Base Strap Gin	18 ¹ / ₄ lb./8.2 kg.



Strap Binder Kit

Catalog No.	Description	Weight
T4002007	D-Buckle Strap Binder only	4 ¹ / ₂ lb./2 kg.



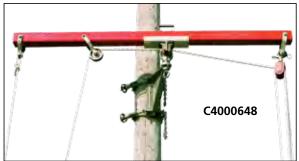
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



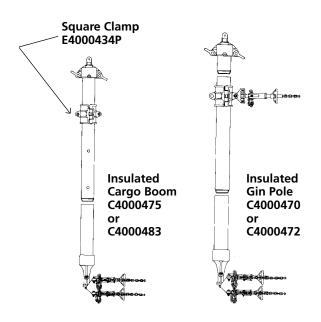
CROSSARM GIN

Available in a standard base and extended base design, these proven Chain Binder Type Transformers Gins are versatile tools for hoisting distribution transformers and apparatus up astructure.





The gin beam can be rotated in a half circle, swinging the load away from underbuild obstructions. Rocker-action of the beam, up to 60°, controls distance of the load from the pole.



Features & Applications

- Yoke casting fits over distribution crossarms, allowing gin to be used with rope blocks
- Can also be used with rope blocks or handline to lift conductors from their insulators
- Removable cadmium-plated steel pin provides adjustment for crossarm from 3-1/2" x 4-1/2" up to 4-3/4" x 5-3/4"
- Convertible model fits up to 6" x 6" crossarm

Safety Considerations

- At 30° maximum angle from vertical, 44" gin has rated
- working load including pull force of 750 lbs.

 500 lb 56" gips are not intended for side-pu
- 500 lb. 56" gins are not intended for side-pull applications on hoist line or load line
- Lines to be within 5° of vertical

Catalog No.	Description	Weight
H20	44" Crossarm Gin	10 lb./4.5 kg.
T4000870	56" Crossarm Gin	12 lb./5.5 kg.
T4001708	Convertible	10 lb./4.5 kg.
	44" Crossarm Gin	

MULTI-DUTY GIN

- Gin clamps at top of pole to lift heavy equipment
- Gin can be mounted lower on pole without changing mounting bracket to avoid obstructions
- Sturdy 4" x 4" Epoxiglas® beam gives unit a 2000 lb. load rating
- With beam removed, mounting bracket can be used by itself for hanging transformers
- Maximum rating of gin bracket is 2500 lbs.

Catalog No.	Description	Weight
C4000648	Multi-Duty Gin,Complete	70 lb./31.5 kg.
C85W	Mounting Bracket with	
	Wheel Tightener	

INSULATED GIN POLE/CARGO BOOM

Insulated Gin Pole is equipped with three chain tighteners which can be mounted to the pole to give lifting capacities of 5,000 pounds.

- Top casting is fitted with two clevises for convenience in loading.
- Placing a pole clamp in the swivel lug allows use of wire tong for stabilizing the gin.

Insulated Cargo Boom is rated at 1,000-pound capacity.

- Center casting can be adjusted to three possible positions for guy loading the tool.
- Base mounting is hinged to permit pivoting of the tool from horizontal upward 90° to vertical and will also swivel a full 180°, depending upon the proximity to the structure.
- Casting at the top is the same as on the Insulated Gin Pole.

Cat. No.	Description	Weight
C4000470	8' Gin Pole/Chain Binders	74 lb./33.3 kg.
C4000472	12'Gin Pole/Chain Binders	90 lb./40.5 kg.
C4000475	16' Cargo Boom/Chain Binders	100 lb./45 kg.
C4000483	16' Cargo Boom/Tower Binders	96 lb/43.2 kg.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 1203

CHANCE®

SWIVEL BOOM — HEAVY DUTY Features & Applications

- Used on EHV to swing an insulator cradle with insulators into a structure for repair
- 1,000-lb. capacity with 4" x 4" Epoxiglas® horizontal boom, coupled with 3" round Epoxiglas mast
- Unit rigging requires a link stick and hoisting device in diagonal position
- Clamp on square boom can be adjusted to three possible positions for loading purposes
- Casting on end of boom is fitted with two clevices for convenient loading
- Available with swivel boom on pole-mounted configuration
- Also available with four tower-mounting brackets to fit towers up to 6" to 6" angle legs



C4000469

Catalog No.	Description	Weight
C4000464	16' Boom, 8' Mast, Clamps	128 lb./57.6 kg.
	For Tower Mounting	
C4000465	C4000465 18' Boom, 10' Mast, Clamps	
	For Tower Mounting	
C4000469	C4000469 18' Boom, 10' Mast, Chain	
	Binders for Pole Mounting	

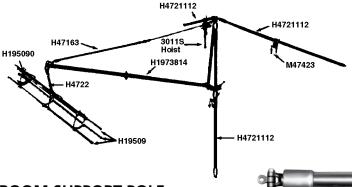


SWIVEL BOOM — MEDIUM DUTY Features & Applications

- Used on transmission structures to lift and move an insulator cradle with insulators into a convenient work position on a structure
- 3"-round Epoxiglas® horizontal boom and vertical mast are designed for 500-lb. ratings when used in a steel-tower configuration
- 600-lb. rating for wood-pole assembly
- Insulated link stick and hoist are used in diagonal position to lift cradle full of insulators clear of deadend

For tower use, three boom support poles should be added in a tripod configuration as shown in the illustration at left below.

Catalog No.	Description	Weight
H1973814	14' Boom, 8' Mast, Clamps	70 lb./31.5 kg.
	For Tower Mounting	
H1973H10	10' Boom, 6' Mast, Chain	61 lb./27.5 kg.
	Binders for Pole Mounting	





BOOM SUPPORT POLE Features & Applications

- 2-1/2" diameter Epoxiglas® poles are used to brace either heavy-duty or medium-duty Swivel Booms in tripod arrangement
- Poles are anchored to steel tower with tower-type saddles (M4742 and M47413)

 Same tool is also used as horizontal member for trolley pole changeouts of suspension insulators

H4721112

Catalog	Pole Diameter	Overall	
No.	& Length	Length	Weight
H4721112	2 ¹ / ₂ " x 12'	12'9"	18.5 lb./8.3 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE



POLY-DACRON ROPE

Chance Poly-Dacron (PD) Rope is a three-strand flexible combination of synthetic fibers. Its excellent dielectric properties, and high resistance to mildew, rot and chemical damage make it an excellent handline rope.

Features & Applications

- While PD can be used on capstans, it should have one or two more wraps than manila
- PD works well in sliding hitches
- Although PD offers greater tensile strength than manila, it is recommended that natural fiber rope be replaced with same-size synthetic rope for workman handling ease
- A wider cross-section proves better for accidental transverse cutting or severe spot abrasion
- Size-for-size substitution makes it possible to benefit from the strength and economy of synthetic ropes

NOTE: While fibers are moisture absorption resistant, water can be tapped between strands as with any braided rope

Catalog			Tensile	Max.	Approx. Wt.
No.	Description	Size	Strength, Lbs.	Load, Lbs.	Per 100 Feet
M18962	Handline	3/8"	2,650	294	4 lb.
M18963	Handline	1/2"	4,200	500	8 lb.
M18964	Bull Line	5/8"	6,700	800	10.5 lb.

Standard 600 feet coils on wooden reel.



POLYPROPYLENE ROPE

Features & Applications

- Strong, lightweight and moisture-resistant
- Water accumulation on surface can be removed by shaking and wiping with absorbent cloth
- As with any rope, polypropylene should be stored in a dry place
- Also, Polypropylene Rope should not be used in running hitches or any friction heating environments
- Not for use on capstans

NOTE: While Polypropylene Rope has excellent dielectric strength, water accumulation between strands is a definite hazard

Catalog			Tensile	Max.	Approx. Wt.
No.	Description	Size	Strength, Lbs.	Load, Lbs.	Per 100 Feet
†M18951	Handline	1/4"	1,130	113	1¹/₄ lb.
*M18952	Handline	³ /8"	2,440	244	3 lb.
*M18953	Handline	1/2"	3,780	420	5 lb.
*M18954	Stringing Line	⁵ /8"	5,600	700	8 lb.
*M18955	Stringing Line	3/4"	7,650	1,090	10³/₄ lb.

^{*}Standard 600 feet coils on wooden reel.



COMPOSITE FIBER BRAIDED ROPE

Features & Applications

- Made of polyester fibers plied over polyolefin fibers in each of the 12 strands
- Composite strands are braided together to create rope with excellent strength-to-weight ratio
- Low stretch, firm, round construction gives excellent gripping power on capstans

		Tensile	Max.	Approx. Wt.
Catalog No.	Size	Strength, Lbs.	Load, Lbs.	Per 100 Feet
C4000798	3/8"	3,880	775	31/2 lb.
C4000799	1/2"	6,700	1,340	6¹/₄ lb.
C4170586	5/8"	11,600	2,320	11 lb.
C4000800	3/4"	14,500	2,900	14 lb.

Standard 600 feet coils on wooden reel.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1252 March 2013

[†]Standard 1200 feet coils on wooden reel.

GLASS FIBER FILLED NYLON ROPE BLOCKS



Features & Applications

- Shells and sheaves are made of high dielectric, fiber-filled natural nylon
- Shaft is silicon bronze and sheave bearings are oil-impregnated bronze
- Blocks available with Polypropylene or Poly-Dacron rope for minimum stretch and long life
- For working-load considerations, blocks are rated as follows:
 - Double Sheave Blocks, max. 3,500 lb.
 - Triple Sheave Blocks, max. 3,500 lb.
- Dielectric Strength: Dielectric rating in dry weather is 30,000 Volts between bearing and mounting bolt nut
- Maximum rope size is ½"

Catalog No. Description		Weight
C4000919	Double Block with Becket	31/4 lb.
C4000918	Triple Block without Becket	31/2 lb.

Catalog No.	Description	Weight			
C4000914	Two Double Blocks with 120' of 1/2"	12 ¹ / ₂ lb.			
	/				
C4000924	3-Str. Polypropylene Rope C4000924 Two Double Blocks with 120' of 1/2"				
C4000915	16 lb.				
	of ½", 3-Str. Polypropylene Rope				
C4000925	Double and Triple Blocks with 150'	20 ¹ / ₂ lb.			
T4001257 Two Double Blocks with 120'		14¹/₂ lb.			
T4001258	of ¹ / ₂ ", Composite Fiber Braided Rope T4001258 Double and Triple Blocks with 150'				
	of 1/2", Composite Fiber Braided Rope				





HAND LINE BLOCK, SAFETY ORANGE Features & Applications

- •1,000 lb. working load
- Safety orange color
- •Fiberglass reinforced nylon body & sheave
- Side-opening body design for easy rigging

Catalog No. PSC4033478 Weight: 11/, lb. (0.57 kg.)

Rated working load: 1,000 lb. (454 kg.)

- 3"-diameter sheave accepts up to 5/8"-diameter
- Plated-steel swivel eye allows 360* orientation
- Plated-forged-steel hook has ¾ throat opening, plus spring-loaded safety latch
- Side-opening design includes high-strength detent-ball pin that is easy to remove and is secured to body with a lanyard

Components available as separate items

Catalog No.	Description	Weight
PSC4033479	Lanyard and Pin Kit	1/4 lb. / 0.11 kg.
PSC4033480	Spring Latch Kit	1/8 lb. / 0.05 kg.



Features & Applications

- Lightweight, cast-aluminum housing and sheave with hinged, cotter-lock yoke and either forgedsteel or steel meat hook makes for quick, easy rigging in various applications
- Hand line and block and tackle efficiency is increased with forged-steel, swivel-eye suspension ring, plus three-inch sheave operating on bronze oilite bearings
- Maximum rope size is 5/8"
- Maximum load capacity is 1,250 lbs. on 2230 Series only

-		
Catalog No.	Description with Retainer Latch	Weight
22301	1250 lb. Block with forged steel hook	2 lb./.9 kg.
22302	1250 lb. Block with steel meat hook	2 lb./.9 kg.
C4176067		
PS400006	Ball Lok Pin Chain for 22301 or 22302	$\frac{1}{4}$ lb./0.11 kg.



C4176067 or 22301



HAND LINE HOOK

Features & Applications

- Hook can be attached any place along the hand line by two large holes
- The long point accommodates most items to be raised and lowered at the

M1849 • Maximum load of hook is 500 lbs. with load seated at bottom of hook



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 1253



WEBBING SLINGS

Features & Applications

- Made in high-visibility "safety yellow"
- Latex-treated for increased abrasion resistance
- Softest, most pliable of nylon webbing slings
- Standard fabrication does not include metal of any kind in body or end fittings
- Designed to handle delicate loads
- Flexible design allows for easy handling and storage
- Two basic types include 10 sizes in Endless version and one size in Return Eye style

WARNING: When selecting slings, the following must be considered:

- 1. Weight of load
- 2. Number of slings used to make lift
- 3. Type of hitch (vertical, choker, basket)
- 4. Effect of sling-to-load angle on sling capacity (see table A). Increasing the angle of the sling increases the strain. Therefore, it decreases the lifting capacity of the sling. Capacities listed are for vertical lifts
- 5. Chance slings must be considered as non-insulating

NOTE

- All Chance slings are identified with a heat-imprinted sewn-on tag that includes capacities, width, style and length
- All Chance slings carry the required OSHA identification tags



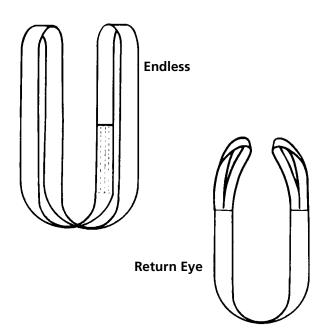
BASIC SLING TYPES

Endless

- Most versatile
- Used in vertical, basket or choker hitch, it conforms precisely to shape of load
- Provides best gripping and holding power in upright position
- Easiest to use and lasts the longest because there are no eyes to predetermine wearing points
- Endless construction permits the two parts of the sling which go around the load to spread apart and provide a "cradle" for load

Return Eye

- Designed primarily for use in choker hitch
- Works equally well for basket and vertical hitch applications
- Constructed with two widths of side-by-side webbing and held in place by third width of webbing which binds the two together
- This design results in eye openings which are in the same place as the sling body, which is best for choking as the sling body remains flat against the load





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1254 March 2013

WEBBING SLINGS

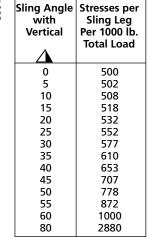


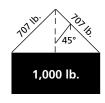


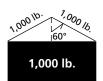
How To Carry Two Full Buckets

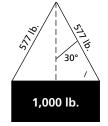
- Above illustrations typify the stresses imposed on slings when legs are attached to the load at various angles
- While rated capacities are shown in this catalog, these tables were inserted primarily to show the severe reduction in capacity when a sling is operated at a wide angle
- Whenever head room permits, it is recommended that the angle with the vertical not exceed 45°
- Where head room is small and sling must be spread at an excessive angle, special care must be used in selecting a sling
- In such cases, consult your distributor or Hubbell Power Systems, Inc.

TABLE A
SLING ANGLES









1,000 lb.

500 lb.



CHANCE WEBBING SLINGS RATED LIFTING CAPACITIES



CATALOG	WIDTH	LENGTH	MAXIN	MAXIMUM CAPACITIES* (LBS.)			
NUMBER	Inches	Feet	Basket	Choke	Vertical	TYPE	
						Return Eye (Eye	
C4170133	2"	6'	7200	2900	3600	length: Approx. 4")	
C4170134	1"	3'	4800	1900	2400	Endless	
C4170135	1"	4'	4800	1900	2400	Endless	
C4170136	1"	5' 4800 1900		2400	Endless		
C4170137	1"	6'	4800	1900	2400	Endless	
C4170138	1"	8'	4800	1900	2400	Endless	
C4170139	13/4"	3'	6400	2500	3200	Endless	
C4170140	13/4"	4'	6400	2500	3200	Endless	
C4170141	13/4"	5'	6400	6400 2500		Endless	
C4170142	13/4"	6'	6400	6400 2500		Endless	
C4170143	13/4"	8'	6400	6400 2500		Endless	
C4170588	1"	3'	12800	12800 5000		Endless	
C4170589	13/4"	5'	17200	6900	8600	Endless	

^{*}MAXIMUM WORKING LOAD IN POUNDS DO NOT USE SLINGS BEYOND RATED CAPACITY.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 1255

POLE HANDLING TOOLS EPOXIGLAS® HANDLE CANT HOOK



- Handle is made of 2" diameter x 4' long orange **EPOXIGLAS**
- Hook is one-piece high carbon steel, end upset, forged and drawn to a point
- Gripper casting incorporates two sets of teeth for improved grip on all pole sizes
- Hook base casting is adjustable to set poles of varying diameters
- A hex head bolt and lockwasher hold base casting in desired position

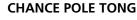
Catalog No.		Description	Approx. Wt. Ea.
	C3050008	Cant Hook	10 lb./4.5 kg.



- The point, secured by a spring-button lock, can be reversed to protect point and avoid damage to equipment when not in use
- Does not absorb moisture so it will not rot or warp
- Features excellent mechanical properties and is relatively lightweight

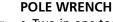
Catalog	Pole Diameter	Approx.
No.	& Length	Weight
214PH	2" x 14'	10¹/₂ lb./4.8 kg.
216PH	2" x 16'	11³/₄ lb./5.3 kg.
218PH	2" x 18'	13 lb./5.9 kg.





- Designed to be used like giant pliers, one worker can guide a pole into place during installation
- Before this tool was developed, it took two workers with peavey sticks to do the job
- Applying pressure to keep the jaws closed, a worker controls forward, backward, side-to-side, and rotary movements of pole as it is lowered by winch or winch line on a hydraulic boom
- Not necessary to regrip the pole once jaws are firmly hooked slightly above ground level
- Fits poles from 7" to 16" in diameter

Catalog No.	Handle Length	Approx. Weight
C200T	3 ft.	17 lb./6.6 kg.



- Two-in-one tool performs functions of a cant hook and pole tong without spiking the pole
- With positive control, it grasps poles of round or other geometric cross sections made of metal, fiber, concrete
- Latex-impregnated nylon-web strap (1-3/4" x 6') rated at 7.500-lb. tensile strength, securely grips even largediameter poles
- Rugged design also includes a 2"-diameter x 4' Chance orange Epoxiglas® handle with plastisol butt cap, a cast-aluminum head and two forged-steel bails.

Catalog No.	Description	Weight
C3050021	Pole Wrench	6 ¹ / ₂ lb./2.9 kg.







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1256 March 2013

KELLEMS PULLING GRIPS



- for Overhead Pulling
- made of high-strength galvanized-steel strand

Features & Applications

- Designed for overhead pulling
- Made of high-strength galvanized-steel strand

WARNING: When selecting slings, the following must be considered:

- 1. Do not run grips or swivels over bullwheels while under tension
- 2. Two Punch-Lok® bands should be firmly attached, approximately 1" and 2" from the grip's tail. Banding is required to ensure maximum reliability and guard against accidental release

3. **DUA-Pull type grips only:** Double-braided rope, as in 2-in-1 type, must be back-spliced for approximately 2/3 of the mesh length for best gripping results. Grip size must be selected by diameter of back splice.

A WARNING

Never use wire mesh grips up to listed approximate breaking strength. Always use an appropriate safety factor when selecting grips for the working load in your application. Kellems minimum recommended factor of safety for pulling grips is five (5). Additionally, banding the tail end of the grip is recommended for maximum grip performance.

DUA-Pull® Type Grips

Features

- Highest-strength pulling grips manufactured for overhead transmission line stringing
- Work with both bare and insulated conductors, plus synthetic rope
- Two-over/two-under weave design delivers exceptional strength and gripping ability
- This is made possible by putting more steel mesh in contact with cable or rope surfaces

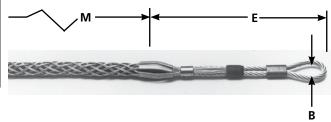
Ordering Information

Catalog	Diamete (incl		Approx. Breaking	Di (ir		Eye (in.)	Dia., Cable & Grip**	Color
	Conductor	Rope*	Strength	E	М	Dia.B	dilp	Code
033271037	.1937		-,			0.218		Black
033271038	.3862	.5090	14,000 lb.	12	36	0.375	.280"	Dk. Green
033271039	.6387	.75 - 1.10	20,000 lb.	13	48	0.437	.360"	Red
033271040	.88 - 1.12	1.00 - 1.50	30,600 lb.	15	60	0.500	.500"	Blue

Dimension E = Eye length Dimension M = Mesh length at nominal dia. *For rope, select smallest size grip which meets required working load.

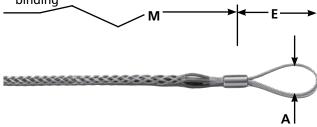
Applications

- Primarily used in overhead transmission line construction
- Designed for loads and safety considerations that require an extra high-strength grip
- Will mate with swivels and link-type connectors
- Also used for attaching pulling lines to conductors, conductors to running boards, and "double socking" for conductor-to-conductor connections
- DUA pull line accommodates ACSR, ACAR, plus, all aluminum and copper conductors
- Grips also accommodate ground wires, messenger strands, plus wire and synthetic ropes



Multiple-Strength Type Grips Features

- Designed for pulling ACSR, aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables
- Made of high-strength, galvanized-steel strand
- Feature a mesh construction of single, double and triple weave for firm holding power
- Endless-weave Grip end lies flat on the cable and will not snag
- Flexible Eye: Flexible, wire-rope eye will mate with a swivel and pass through blocks and sheaves without binding



Applications

- Ideal for overhead transmission and distribution line stringing for moderate loading
- An economical tool for attaching conductors to pull lines and "double socking" for conductor-to-conductor connections

Ordering Information

	Cable	Approx.	Dimension		Eye	
Catalog	Dia. Range	Breaking	(ir	า.)	(inches)	Color
Number	(inches)	Strength	F	М	Dia. A	Code
	, ,		E	IVI	Dia. A	
03302044	0.25 - 0.49	6,800 lb.	9	26	1/4	Green
03302046	0.50 - 0.74	10,000 lb.	9	32	⁵ / ₁₆	Brown
03302048	0.75 - 0.99	14,400 lb.	11	41	³ / ₈	Light Blue
03302050	1.00 - 1.24	24,600 lb.	12	52	1/2	Gold
03302052	1.25 - 1.49	30,600 lb.	12	56	1/2	Black
03302054	1.50 - 1.74	30,600 lb.	12	60	1/2	Red

Dimension E = Eye length

Dimension M = Mesh length at nominal diameter

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



March 2013 Page 1257

^{**}Add to cable or rope diameter.



KELLEMS PULLING GRIPS

• for Underground Pulling

K-Type Grips

Features

- Kellems Rotating-Eye K-Type Pulling Grips are made of high-strength galvanized-steel strand
- Feature double-weave mesh for greater strength and added mesh contact with the cable
- · Designed to handle longer or heavier pulling jobs
- Forged eye mates with a swivel or shackle

Applications

- Specially designed for use in the installation of underground power cables
- Also made for communication and service lines into factories, shopping centers, construction projects, and general underground electrical construction

Ordering Information

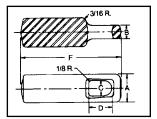
Catalog	Cable Diameter Range	Approximate Breaking	Dimension (in.)		Eye (inches)
Number	(inches)	Strength (lb.)	E	М	Diameter A
03301024	0.75 - 0.99	9,600	6	32	1
03301025	1.00 - 1.49	16,400	7	33	1 ³ / ₈
03301026	1.50 - 1.99	16,400	7	34	1³/ ₈
03301027	2.00 - 2.49	27,200	9	36	1 ⁵ / ₈
03301028	2.50 - 2.99	33,000	10	38	1 ⁷ / ₈
03301029	3.00 - 3.49	41,000	10	39	1 ⁷ / ₈

Dimension E = Eye length
Dimension M = Mesh length at nominal diameter

Rotating Eye Feature

- Equipped with a forged-steel rotating eye which can be attached to a swivel
- Durable and compact eye threads through blocks and sheaves without binding
- Rotating eye is not a swivel and will not turn while under tension
- Can turn to relieve pulling torque when tension is relaxed
- If constant swivel action is required, a swivel should be used

Eye Diameter	Rotating Eye Dimensions				
(inches)	Α	В	С	D	F
1	1	1/2	9/16	¹³ / ₁₆	31/2
1³/ ₈	1 ³ / ₈	1/2	¹¹ / ₁₆	1	41/2
1 ⁵ / ₈	1 ⁵ / ₈	5/8	⁷ / ₈	13/ ₁₆	5 ⁵ / ₁₆
1 ⁷ / ₈	17/8	21/32	1	13/8	6 ¹ / ₈





WARNING

Never use wire mesh grips up to listed approximate breaking strength. Always use an appropriate safety factor when selecting grips for the working load in your application. Kellems minimum recommended factor of safety for pulling grips is five (5). Additionally, banding the tail end of the grip is recommended for maximum grip performance.



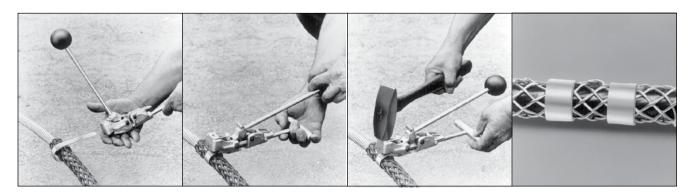
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1258 March 2013



KELLEMS PULLING GRIPS

Bands and Tools for Pulling Grips



Features & Applications

- Punch-Lok® Bands are applied over the tail of a grip to prevent mesh from being tripped or pulled loose
- Ensure full gripping action by locking mesh of tail in tight contact with cable or rope
- When tail of grip is the leading end, the bands are particularly important to prevent accidental release caused by tripping on obstructions
- A conductor-to-conductor (double socking) pulling operation is a good example of two grips connecting two conductors to form a temporary splice
- Bands should be applied to the ends of grips as illustrated herein
- It is also common to tape over the banded tail area to ensure smooth passage through sheaves

Note:

- During installation, each end of the grip should be taped down securely to the cable to ensure smooth passage with the cable and guard against accidental release
- · See end bands listed below

Note:

- In all cases, two Punch-Lok Bands should be doubled, wrapped approximately 1" and 2" from the grip's tail
- Banding is required to ensure maximum reliability and guard against accidental release

Punch-Lok Tools

Catalog No.	Description
20320048	P-1 Heavy Duty

Punch-Lok Bands

Catalog No.	Grip Banding	Band Width	Band Inside	
(one each)	Range (Inches)	(Inches)	Diameter (Inches)	Model
20320050	1/ ₄ - 11/ ₈	³ / ₈	1 ³ / ₈	0-311
20320051	1 ¹ / ₈ - 1 ⁵ / ₈	3/8	2	0-316
20320052	15/8 - 21/4	5/8	21/2	0-10
20320053	11/4 - 31/2	5/8	4	0-16
20320054	31/2 - 5	5/8	6	0-24

HUBBELL

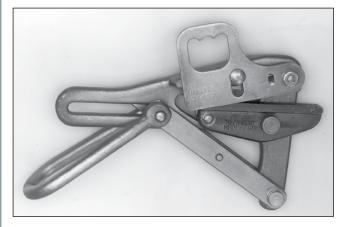
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 1259

[®]Punch-Lok is a registered trademark of Punch-Lok Co.



Hot Line Wire Grips



Features & Applications

- Designed for use with hot line tools or regular line work
- Top ring for placing the grip on a hot line with a hot stick
- When released, the grip locks on line and will not fall off
- Holds grip firmly and prevents slipping
- Body is heat-treated steel alloy and made to rigid specifications

				Safe	
	Catalog	WIRE SIZE — AWG OR MCM		Load,	Weight
Jaws	No.	Max.	Min.	lb.	lb./kg.
A	T161340H	1/0 Str. (.373")	8 Sol. (.120")	4500	3/1.4
A	T16845H	4/0 Str. (.550")	4 Str. (.218")	8000	6.25/2.8
•	T165640H	336.4 ACSR (.741")	3/0 ACSR (.530")	8000	7.75/3.5
•	T165650H	477 ACSR (.860")	397.5 ACSR (.740")	8000	7.75/3.5

- ▲ = for use on small bare wire and cable (solid and strand).
- = for use on bare aluminum, ACSR and copper conductor.

Wire Puller Hook



Features & Applications

- Fits most popular porcelain or polymer deadend insulators
- For use in cutting deadends and pulling slack on automatic deadends
- Holds the insulator and deadend assembly directly iln line with the conductor, eliminating the need to hold the insulator up with an insulator fork for inserting wire into the automatic deadend
- Can be applied by hand or with hot stick
- · Has maximum rated load of 3500 lbs.

Catalog No.	Description	Weight
WPH3	Wire-Puller Hook	1 ¹ / ₂ lb./68 kg.

Standard Pulling Eyes

Features & Applications

- Economical resource provides a large offset eye to accommodate three-ton chain hoist hooks
- Leaves anchor eye free with plenty of clearances for attaching formed wire grips
- E95B Adapter Bushing quickly adjusts to fit 1/2", 5/8", 3/4", or 1" anchor rods
- By removing the Adapter Bushing, the E96 Pulling Eye fits
 - 1 1/4" rods
- E96 Pulling Eye is inexpensive and easy to use
- One man can assemble and hook up in minutes
- For working loads to approximately 6,000 pounds (ultimate strength — 18,000 pounds)



Catalog No.	Weight
E96	5 lb./272 kg.

E95B Adapter Bushing (included)

5/8 x 25/8 Lg. Cadmium Plated Bolt with Nut



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 1260 March 2013

CHANCE

Grip-All Clampsticks External Control Rod

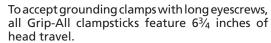
- External Operating Rod Type
- Tested per OSHA & ASTM F711
- Versatile tool puts an easy-to-control "finger" on an insulated pole
- Primarily designed for installing hot-line and grounding clamps

 Also serves both overhead and underground circuits with various end fittings

Operation

- Operating mechanism (or "shotgun") incorporates a sliding hand grip that opens the hook to grasp a clamp eyescrew and retract it into tool head
- Latch must be depressed to release locked hand grip that opens the hook
- For smooth operation, investment-cast stainless-steel components include Jaw, Jaw Holder, Safety Stop, Lockbar and Latch illustrated below
- Lexan® tool head is designed for close-quarter operations
- Worker must maintain recommended work distance based solely on the Epoxiglas® pole section of the handle, as the hook and its actuator are metal parts
- Easy-care Grip-All Clampsticks do not require field stripping to clean
- All insulated parts, including the operating rod, are outside the main pole, readily accessible to wipe dry

HUBBELL



Notch in tool head aligns the clamp while the operator places it.



Single-Piece Style

†Catalog No.	Overall Length	Weight	*Storage Bag
C4030291	11/4" x 4' 9"	5¾ lb./2.6 kg.	P6434
C4030292	1¼" x 6' 8"	6½ lb./2.9 kg.	P6436
C4030293	1½" x 8' 7"	7¼ lb./3.3 kg.	P6438
C4030294	11/4" x 10' 7"	8 lb./3.6 kg.	P64310
C4030295	11/4" x 12' 7"	8¾ lb./3.9 kg.	P64312

[†]For metal universal fitting, add suffix "A". *For storage bags, see Catalog Section 2500.

Hinged Style

Ideal for troubleshooters with limited tool-storage space in their vehicles, this folding version operates with the same features as the one-piece style.

†Catalog No.	Folded	Extended	Weight	*Storage Bag
C4030296	3'4"	1¼" x 6' 9"	8 lb./3.6 kg.	P6432
C4030297	4'4"	1¼" x 8' 8"	9 lb./4.1 kg.	P6432
C4030298	5'4"	11/4" x 10' 8"	10 lb./4.5 kg.	P6433
C4030299	6'4"	11/4" x 12' 8"	10½ lb./4.7 kg.	P6435
C4030342	7'4"	11/4" x 14' 8"	11 lb./5.0 kg.	PSP6435005
C4030343	8'4"	11/4" x 16' 8"	11½ lb./5.2 kg.	PSP6435004

^{*}For metal universal fitting, add suffix "A".
*For storage bags, see Catalog Section 2500.

[†]For metal universal fitting on handle end of any Single-Piece or Hinged Grip-All, add suffix "A" to the Catalog Number.

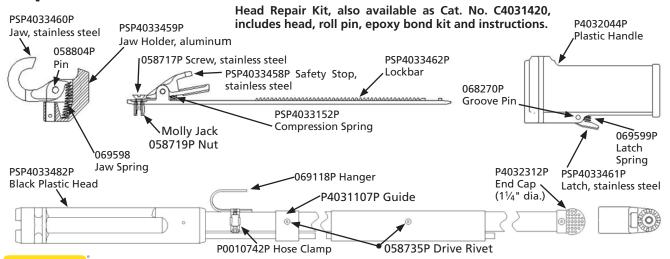


To convert any Grip-All stick to use all Universal Tool Accessories, the M1867 Adapter secures in the clampstick hook and head housing.



M186

Replacement Parts for External Control Single-Piece and Hinged Grip-All Clampsticks



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2102 May 2014

Grip-All Clampsticks, Telescoping

Tested per OSHA & ASTM F711

Features & Applications

- Tested per OSHA & ASTM F711
- Available in two sizes, each readily locks at variable working
- Design features rotating coupler and an engineered positive-lock button with safety stop to keep sections from parting or hook releasing while in use
- Mechanism locks sections into a solid, rattle-free tool
- Black head makes it obvious head is not included in minimum approach distance
- Can replace several conventional clampsticks
- Allows linemen to adhere to safe-working distances and positioning needs, with fewer sticks
- Reduces the number of clampsticks required on a line truck, saving limited storage space
- Engineered interface between sections ensure tool retracts with full control
- Close fit helps keep out dirt and moisture
- Top section is made with foam-center Epoxiglas® insulated pole
- Functions of this telescoping style are identical to fixedlength style
- All controls can be easily accessed while wearing gloves
- Easy to disassemble, stick must be kept clean and dry inside to ensure long life

	Extended Tool can	Retracted	
Catalog No.	lock at each length:	Length	Weight
C4031035	5'6¾", 6'9½", 8'	5'2 ³ / ₄ "	6 lb./2.7 kg.
C4031036	8'6¾", 10'4½", 12'2¼", 14'	8'2¾"	8 lb./3.6 kg.

For storage bags, see Catalog Section 2500.

Telescoping Style with Universal Fitting on Handle

	Extended Tool can	Retracted	
Catalog No.	lock at each length:	Length	Weight
C4033060	5'10½", 7'1¼", 8'3¾"	5'6½"	6 lb./2.7 kg.
C4033061	8'10½", 10'8¼", 12'6", 14'3¾"	8'6½"	8 lb./3.6 kg.

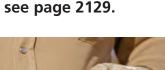
For storage bags, see Catalog Section 2500.

Grip-All Clampstick Assist Ring

Features & Applications

- Provides a suspension midpoint for any Grip-All clampstick
- Assembly permits support line to attach at smaller ring helpful on longer sticks
- Insulated, properly-sized Strain Link Stick should be used in the handline to help maintain safeworking clearances for hotline procedures
- Assist Ring halves assemble simply by threaded fasteners
- Keyhole shape for operating rod permits clampstick to function as usual





fit tools on this page,

For SAFETYSHIELD™

Hot Stick Barrier to



Factory-installed universal fitting on end opposite the clampstick head.



Catalog No.	Description	Weight
E4032543P	Grip-All Assist Ring	1 ¹ / ₂ lb./0.68 kg.

*For Strain Link Sticks, see Catalog Section 2250.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



ELBOW PULLER TOOLS

Note: Grippers are not included with tools on this page. To order grippers interchangeable for 15, 25 and 35 kV, see REPLACEMENT GRIPPERS table on page 2105.

Features & Applications

- Tested per OSHA & ASTM F711
- Facilitate removing elbow connectors from transformer bushings and other apparatus
- Elbows can be difficult to remove when silicone grease on the interface of elbow and bushing dries out and hardens over time
- Special integral hook on tool head fits through rubber eye of elbow or metal hook of bushing cap
- Used in this manner, hook adds extra control and pulling power to grippers

For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.





IMPACT Elbow-Puller Tools

Features & Applications

- Lightweight tool uses slide-hammer mechanism to easily disengage and replace elbows
- Tool and grippers help operator to control elbow and stiff underground cable lead
- For sure, balanced grip, 5-lb. slide hammer is plastisol coated and flared at both ends
- For secure handling, both front and rear handgrip areas of pole are coated with Griptread
- Available in three lengths, tools are made of 1-1/4"-diameter orange Epoxiglas® pole
- 6' to 8' foot units meet OSHA requirements
- 4-1/2' unit, labeled "For Rubber Glove Use Only", has 5"-long insulation length

Operation

To pull an elbow connector:

- Insert hook through eye on elbow
- Close down grippers on elbow by rotating pole
- Support tool with one hand on front grip behind handguard and other hand on slide hammer
- Slide hammer from front to rear anvil
- Resulting impact should release elbow with sufficient momentum to withdraw it from bushing without extended arcing

To install an elbow connector:

 Follow the same procedures for pulling, EXCEPT use slide hammer impact against front anvil to help seat the elbow





Impact Elbow Pullers (Grippers not included. Order Grippers separately. See REPLACEMENT GRIPPERS table, page 2104.)

Catalog No.	Description	Weight
C4031822	†6-foot length	12 lb./5.4 kg.
C4031850	†8-foot length	12¼ lb./5.6 kg.
C4031851	*4½-foot length	11½ lb./5.2 kg.

^{*4}½-foot tool labeled "For Rubber Glove Use Only." †6- and 8-foot tools meet OSHA insulation requirements.

Storage Bags (Yellow vinyl/fabric)

P6436	Bag for 4½' or 6' tool above
P6438	Bag for 8' tool above

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2104 May 2014



ELBOW CONNECTOR TOOL REPLACEMENT GRIPPERS

FOR 15 kV, 25 kV and 34.5 kV ELBOWS



Features & Applications

- Provides a sure grip for installing and disconnecting elbow terminators
- Grabs the elbow and has a special integral hook that fits through the rubber eye of an elbow or the metal hook of a bushing cap
- Gives lineman complete, positive control, overcoming resistance of stiff underground cable

ORDERING INFORMATION

REPLACEMENT GRIPPERS (Also required for Elbow Puller Tools, page 2105)

Catalog No.	Description	Weight
C4030704	15 kV Plastic-Coated Grippers	⅓ lb./.3 kg.
C4030613	25 kV Plastic-Coated Grippers	1 lb./.5 kg.
C4030614	25 kV Uncoated Grippers	5⁄8 lb./.3 kg.
C4030814	34.5 kV Plastic-Coated Grippers. Fits RTE	1 lb./.5 kg.
	200 AMP and 600 AMP Elastimold "T" Elbow	

Arc Snuffer Removal & Replacement Tools – specifically for use in Grip-All clampsticks –



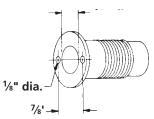


Features & Applications

- Two hot-line tools permit easy retrieval of broken arcsnuffers and installation of replacements
- Does not de-energize URD bushings
- Designed to ensure adequate electrical clearances
- Specifically for use in Grip-All clampsticks
- Integral ring on each tool retracts into clampstick
- Tool bodies are high-impact plastic with steel inserts
- Removal Tool works like bolt extractor and when inserted into a damaged arcsnuffer, it permits retrieval by unscrewing the broken part
- Replacement Tool controls alignment with a spring-action center post that snaps into arc snuffer bore
- Two steel tool lugs engage holes in snuffer collar to transmit tightening torque

Tools fit many 15 & 25 kV snuffers.

These tools fit bushing arc snuffers with dimensions given at right.



ORDERING INFORMATION

Catalog No. Description		Weight			
C4032037	Removal Tool	1/4 lb./0.1 kg.			
C4032036	Replacement Tool	½ lb./0.1 kg.			

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



May 2014 Page 2105

CHANCE®

Head of the tool locks in three positions . . . enables lineman to handle conductor from any angle.



With handle positioned as shown in photo above, the knurled nut can be turned to adjust the gripper to the exact wire size.

Wire Holding Stick C4033068



HG30425 Extra long head (above) for use with long eyescrew ground clamps.

WIRE-HOLDING STICKS

Features & Applications

- Tested per OSHA & ASTM F711
- Used on or around energized lines for forming, bending and positioning jumper wires
- Also used for holding conductors during splicing operations
- Gripper, with an eye for extra sticks, will handle No. 6 copper through 1590 kcmil ACSR

Operation

- Grips like locking-type pliers
- By tightening the knurled nut at control lever, wire-holding jaws can firmly grip conductor
- When doing this, tightening control lever must be in relaxed position about 1" from pole
- To secure conductor grip, push lever down to the pole
- To release conductor, simply move the control lever all the way up along the rod
- Head of tool locks in three stop positions, allowing lineman to easily position conductors
- Knurled screw handle below jaw opening adjusts head position from straight to right to left

Conductor Capacity: #6 to 1590 kcmil ACSR (0.162" to 1.5")

Catalog No.	Pole Dia. & Overall Length	Approx. Weight
C4033068	1½" x 6'5"	6½ lb./2.7 kg.
C4033069	1¼" x 8'5"	6¾ lb./3.0 kg.
PSC4030592	1¼" x 10'5"	7½ lb./3.4 kg.
T4032992	1½" x 11'2"	81/4 lb./3.7 kg.

For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.

Positive Grip Clamp Stick HG30302

Positive Grip Clampstick

Features & Applications

- Tested per OSHA & ASTM F711
- For use on eyescrew grounding or hot line clamps
- Can be mounted on the line and tightened at up to 30° angles
- Aluminum and bronze fittings

Operation

- Install clamp by aligning locking ring with slot in housing
- Place eye of clamp in housing
- Holding locking ring and clamp in one hand, rotate pole clockwise to trap eye
- Remove clamp by engaging clamp body locking ring and rotating pole clockwise to trap eye
- Butt end is equipped with a combination tool hanger and universal head

Catalog	Pole Dia. &		Approx.
No.	Overall Length	Type Head	Weight
HG30302	11/4" x 8'6"	Regular Length	4 lb./1.8 kg.
HG303012	11/4" x 8'6"	Extra Long	4 lb./1.8 kg.
HG30422	Reg. Length Clan	1 lb./0.45 kg.	
HG30425	Extra Long Clamp	11/8 lb./0.5 kg.	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE

Standard Duty Heavy Duty

DISCONNECT TOOLSFeatures & Applications

TELESCOPING

- Tested per OSHA & ASTM F711
- Allow linemen to perform many routine jobs from ground level
- Universal end fitting on insulated top section accepts a wide variety of attachments
- This allows lineman to disconnect switches and replace cutout tubes
- Also allows lineman to remove pole covers, prune trees, plus other overhead tasks
- Sticks retract to approximately 5 ft. for easy truck transport (even in most cab sections)
- Heavy-duty, spring-loaded plastic buttons keep extended tool sections locked in place
- As each section extends and slightly twists, buttons also pop securely into place

Standard Versus Heavy Duty

- Both units feature same telescoping tube design
- Heavy-duty units have slightly larger tip sections: 1-1/4" versus 1-1/8"
- Each heavy-duty telescoping tube is also slightly larger
- This results in more rigidity, important for managing heavyweight maintenance tasks
- Both tip sections feature proven Chance Epoxiglas®
- This unicellular foam-core material prevents moisture trapping voids between foam and tool



Disconnect Head included with each tool.

When space is extremely limited for truck storage, a 23 ft. Telescoping Tool that compacts to 4 ft. is available as Catalog No. C4031739.

Standard Duty (1½16"-dia. Tip)

	Extended Length	Storage		Number	
Catalog	(Tool can be locked	Retracted	Base	of	
Number	at each length shown)	Length	Dia.	Sections	Weight
C4031023	8 ft.	56"	1 1/4"	2	2 lb./.9 kg.
C4031017	8 - 12 ft.	57"	11/2"	3	2¾ lb./1.2 kg.
C4031018	12 - 16 ft.	59"	1 ¹¹ / ₁₆ "	4	4 lb./1.8 kg.
C4031019	12½ - 16½ - 20 ft.	61"	17/8"	5	5 ¹ / ₄ lb./2.4 kg.
C4031020	16½ - 20½ - 25 ft.	63"	21/16"	6	7 lb./3.2 kg.
C4031021	17½ - 21½ - 25½ - 30 ft.	65"	21/4"	7	8¾ lb./3.9 kg.
C4031022	22 - 26 - 30½ - 35 ft.	67"	21/2"	8	11 lb./5 kg.
T4033349	22 - 28 - 34 - 40 ft.	74 ½"	21/2"	8	12 lb./5.45 kg.

Compact Standard Duty (11/16"-dia. Tip)

T4032205	7 ft.	28"	17/8"	5	2¾ lb./1.2 kg.
C4031739	14 - 17 - 20 - 23 ft.	48"	21/2"	8	9 lb./4.1 kg.
T4033240	10 ft.	36"	1 ¹¹ / ₁₆ "	4	4 lb./1.8 kg.

Heavy Duty (11/4"-dia. Tip)

C4031597	8 ft.	56"	11/2"	2	3 lb./1.4 kg.
C4031598	8 - 12 ft.	57"	1 ¹¹ / ₁₆ "	3	3¾ lb./1.7 kg.
C4031599	12 - 16 ft.	59"	1 ⁷ ⁄8"	4	5 lb./2.3 kg.
C4031600	12½ - 16½ - 20 ft.	61"	21/16"	5	6½ lb./2.9 kg.
C4031601	16½ - 20½ - 25 ft.	63"	21/4"	6	8½ lb./3.7 kg.
C4031602	17½ - 21½ - 25½ - 30 ft.	65"	21/2"	7	10¼ lb./4.6 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

May 2014 Page 2107



Telescoping Tool Repair Kits

Features & Applications

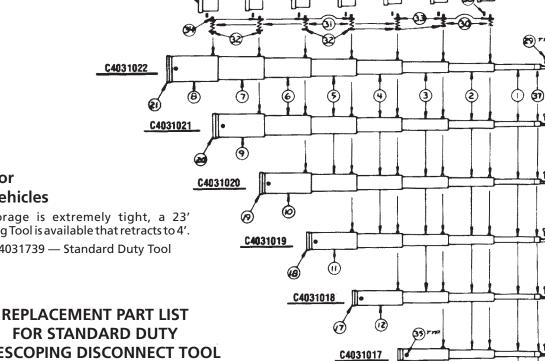
- Chance Telescoping Tools are designed and built for long life
- For necessary repairs, a complete kit is available with all buttons and springs for various stick lengths
- Refer to cross reference at right for individual kit part
- For single parts, refer to the drawing and table to order correct part numbers

Standard Duty Tool Cat. No.	Heavy Duty Tool Cat. No.	Button & Spring Kit No.
C4031023	C4031597	T4031245
C4031017	C4031598	T4031246
C4031018	C4031599	T4031247
C4031019	C4031600	T4031248
C4031020	C4031601	T4031249
C4031021	C4031602	T4031250
C4031022	N/A	T4031251
T4032205	N/A	T4031248



Sticks For Small Vehicles

When storage is extremely tight, a 23' Telescoping Tool is available that retracts to 4'. Cat. No. C4031739 — Standard Duty Tool



TELESCOPING DISCONNECT TOOL (Refer to factory for specific parts needed for Heavy Duty Disconnects.)

C4031022

Item	Description	Part Number	
1	Pole & Ferrule	E4032742P	1½16" Outside Diameter
2	Tube	P4030987P	11/4" Outside Diameter
3	Tube	P4030988P	1½" Outside Diameter
4	Tube	P4030989P	1 ¹¹ / ₁₆ " Outside Diameter
5	Tube	P4030990P	17/8" Outside Diameter
6	Tube	P4030991P	2½16" Outside Diameter
7	Tube	P4030992P	21/4" Outside Diameter
8	Base Tube	P4030999P	2½" Outside Diameter
9	Base Tube	P4030998P	2 ¹ / ₄ " Outside Diameter
10	Base Tube	P4030997P	2½16" Outside Diameter
11	Base Tube	P4030996P	17/8" Outside Diameter
12	Base Tube	P4030995P	1 ¹¹ / ₁₆ " Outside Diameter
13	Base Tube	P4030994P	1½" Outside Diameter
14	Base Tube	P4030993P	1 ¹ / ₄ " Outside Diameter
15	Bottom Cap	P4031014P	
16	Bottom Cap	P4031013P	
17	Bottom Cap	P4031012P	
18	Bottom Cap	P4031011P	
19	Bottom Cap	P4031010P	
20	Bottom Cap	P4031009P	
21	Bottom Cap	P4031008P	

FOR STANDARD DUTY

	• •	
Item	Description	Part Number
22	Plug	P4031007P
23	Plug	P4031006P
24	Plug	P4031005P
25	Plug	P4031004P
26	Plug	P4031003P
27	Plug	P4031002P
28	Plug	P4031001P
29	Thumbscrew	P4030467P
30	Spring	P4032351P
31	Spring	P4032352P
32	Retainer	P4031977P
33	Button	P4033002P
34	Button	P4033001P
35	Mach. Screw	P0010309P
36	Drive Lock Pin	P0010419P
37	Universal Fitting	P4032514P



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2108 May 2014



Telescoping Measuring/Disconnect Tool

• One tool does it all • English AND Metric Scales
Tested per OSHA & ASTM F711

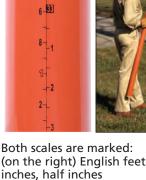
Features & Applications

- Tested per OSHA & ASTM F711
- English and metric scales for measuring pole heights and conductor clearances from ground
- Easy-to-read scales feature large black characters on Chance orange fiberglass sections
- English scales are marked with 1' increments
- Each inch is marked in bold numbers and half inches are indicated with intermediate bars
- Removable disconnect head for operating switches and cutouts
- End fitting on insulated top section accepts other Universal Tool Accessories (Pages 2120 - 2127) for energized conductor applications, all from the ground
- Positive spring-load locking-button mechanism and plug feature prevent tool separation
- Once snapped into place, buttons securely lock into position – no unexpected tool retractions

Operation

- To extend tool to desired length, pull out top section and rotate it until button engages in next section
- For measuring aerial distances, continue this process until tip reaches desired height
- Next, set butt of tool on ground and read scale at eye level for exact distance of tip above ground
- To retract, depress button of largest section first, then rotate it to disengage and collapse section
- Continue this process by taking each next smaller section in turn







Both scales are marked: (on the right) English feet, inches, half inches AND (on the left) Metric meters, decimeters, centimeters. Tool's top end section is insulated for maximum protection. There are no moisture-trapping voids between foam and tool wall because the tool wall is built around the foam.

English AND Metric Scales feet, inches, half inches AND meters, decimeters, centimeters

		Length		
*Catalog	Number of	Min.	Max.	
Number	Sections	(storage)	(extended)	Weight
C4031022EM	8	5' 7"	34' 9.3"	11 lb./5.0 kg.
		(1.70m)	(10.6m)	

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

May 2014 Page 2109



Heavy-Duty Adjustable Sticks

- Two-section telescoping tool
- Two sizes and three styles

Features & Applications

- Tested per OSHA & ASTM F711
- For substations and close-clearance worksites
- Clearly marked at each 1' extension lock
- One of these tools can replace as many as eight singlelength hotsticks
- Adjustable sticks can be stored in short collapsed lengths and to avoid difficulties of maneuvering extra-long sticks through busswork structures
- · Heavy-duty construction
 - o Classified as Heavy-Duty due to its large (1-1/4"-diameter) insulated top section and 1-1/2"-O.D. epoxy-reinforced fiberglass base tube
- 24" overlap at usable-length extremes
 - o In each size, a 2' section of Epoxiglas® foam-core top section remains inside the base section at the longest locked, usable length
 - o At the shortest locked length, insulated top section extends a full 2' beyond base

Operation

- Easy to use, yet rugged mechanism
- High-strength plastic buttons same as those in other Chance telescoping tools – keep tools locked at each length
- As top section is extended and twisted, lock button pops into place
- One worker can quickly adjust length with a convenient alignment dot at each 1' setting on the insulated section that matches another dot at the top of the base section

For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.

Ordering Information

Disconnect-Style NEMA Head:

Catalog No.	Lockable Lengths, ft.	Collapsed	Weight
C4032600	10,11,12,13,14	8' 2¾"	6½ lb./2.9 kg.
C4032601	12,13,14,15,16,17,18	10' 23/4"	8 lb./3.6 kg.

Switch-Style NEMA Head:

C4032602	10,11,12,13,14	8' 2"	6½ lb./2.9 kg.
C4032603	12,13,14,15,16,17,18	10' 2"	8 lb./3.6 kg.

Universal Fitting* Style:

C4032604	10,11,12,13,14	8' 3¾"	6½ lb./2.9 kg.
C4032605	12,13,14,15,16,17,18	10' 3¾"	8 lb./3.6 kg.

• Universal Fitting* Style



 Switch-Style Head Bronze, NEMA-Standard



Disconnect-Style Head Bronze, NEMA-Standard



Extension length is clearly marked at each hole for button engagement.

[‡]Top section may be removed for use alone since it is essentially a single-piece hotstick of standard Epoxiglas construction with unicellular foam center.



*Universal disconnect head (Part No. M4455-9) must be ordered as a separate item for universal-fitting style sticks (Catalog Numbers C4032604 or C4032605).



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2110 May 2014

Trouble Shooter Kit



Tested per OSHA & ASTM F711

Features & Applications

- Includes six 4' sections of field-proven 1-1/4" Epoxiglas® Universal Pole that snap together
- Spring-loaded locking buttons for use at 4', 8', 12', 16', 20' and 24' lengths
- Butt section has end cap
- Fitting on top section with thumbscrew accepts Universal Accessories in kit

Kit Universal Accessories

- Aluminum Disconnect Head for opening and closing switches, and opening enclosed cutouts, has built-in hanger hook
- Non-Metallic Disconnect Head provides additional insulation for indoor substations where busswork and switches are in close proximity. Plastisol cap at top; 19" overall length with 15" long Epoxiglas section
- Clamp Stick Head for use with 6" long eyescrew ground clamps has locking ring with detent ball for on-off operation. Aluminum alloy
- Tree Trimmer mounted on 18" pole adds 1-1/2' to reach

- with 3-to-1 mechanical advantage pulley and 25' of furnished rope. Offset universal fitting on trimmer accepts pruning saw
- Pruning Saw with black Teflon® coating on fine-tooth blade for smooth, non-stick action attaches directly to top pole, tree trimmer or pistol grip
- Pistol Grip Saw Handle of aluminum alloy is for use when limbs can be reached and insulation is not
- Storage Case of yellow heavy-duty vinyl-impregnated fabric has separate pockets for individual tools and Velcro flap closures



Kit forms compact 4' x 9" unit secured by two straps and plated buckles. At 24 pounds, kit easily totes by center carrying handle.

Catalog No.	Description	Weight
C4031612	Complete Trouble Shooter Tool Kit	24 lb./10.8 kg.

Separate or	
Replacement Components	Weight
Top Section Epoxiglas Pole	21/4 lb./1.0 kg.
Mid Section Epoxiglas Pole	21/4 lb./1.0 kg.
Aluminum Disconnect Head	1/8 lb./0.06 kg.
Non-Metallic Disconnect Head	11/4 lb./0.6 kg.
Clamp Stick Head	11/4 lb./0.6 kg.
Tree Trimmer	3½ lb./1.6 kg.
Pruning Saw	½ lb./0.2 kg.
Pistol Grip Saw Handle	½ lb./0.2 kg.
Storage Case	3 ¹ / ₄ lb./1.5 kg.
	Replacement Components Top Section Epoxiglas Pole Mid Section Epoxiglas Pole Aluminum Disconnect Head Non-Metallic Disconnect Head Clamp Stick Head Tree Trimmer Pruning Saw Pistol Grip Saw Handle

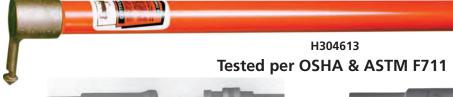


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2111 May 2014



Disconnect Sticks







SPLICE FOR H3146 SERIES

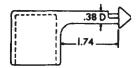
Used on Cutouts and Disconnect Switches Features & Applications

- Provide insulation for linemen in opening and closing disconnect switches and cutouts
- Also used for installing and removing open-link fuse links
- Poles are made of Epoxiglas®
- NEMA-standard heads of cast bronze
- Available in three types: switch head, disconnect head, or spliced disconnect head

Spliced Disconnect Sticks Features & Applications

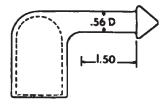
- For convenient transporting and/or when greater length is required
- Splice is strong and rigid easy to assemble and disassemble
- Taking-down feature makes sticks easy to carry on line trucks and in tool trailers

For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.



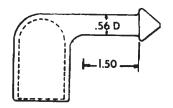
11/4" Switch Stick Head

Catalog No.	Pole Dia. & Length	Weight
H3046	Head Only	4 oz./0.11 kg.
H304611	11/4" x 4'	1¼ lb./0.6 kg.
H304612	11⁄4" x 6'	1½ lb./0.7 kg.
H304613	11/4" x 8'	2¼ lb./1.0 kg.
H304614	11/4" x 10'	2¾ lb./1.2 kg.
H304617	1¼" x 12'	3⅓ lb./1.6 kg.



1½" Disconnect Head

H30462	Head Only	5 oz./0.14 kg.
H304622	1½" x 6'1"	2 ¹ / ₄ lb./1.0 kg.
H304623	1½" x 8'1"	2 ¹³ / ₁₆ lb./1.3 kg.
H304624	1½" x 10'1"	37/16 lb./1.5 kg.
H304615	1½" x 12'1"	4 lb./1.8 kg.
H304616	1½" x 16'1"	55/16 lb./2.4 kg.
H304618	1½" x 18'1"	6 lb./2.7 kg.
H304620	1½" x 20'1"	6% lb./3 kg.
		1



11/4" Spliced Disconnect Head

	Top and Bottom	
H314612	1½" x 6' and 1½" x 6'1"	6 lb./2.7 kg.
H314616	1¼" x 8' and 1½" x 8'1"	7½ lb./3.4 kg.
H314618	1¼" x 8' and 1½" x 10'1"	8¼ lb./3.7 kg.
H314620	11/4" x 10' and 11/2" x 10'1"	9 lb./4 kg.
H314624	1¼" x 12' and 1½" x 12'1"	10½ lb./4.7 kg.

Tested per OSHA & ASTM F711 ____

Fiberglass Head Features & Applications

 Provides additional insulation required when bus and disconnect switch spacings are confined, as in indoor substations

• See illustration at left

	Catalog	Pole Diameter	Approximate
	No.	& Length	Weight
	H30465	11/4" x 4'	11/8 lb./0.5 kg.
_	H30466	11/4" x 6'	15/8 lb./0.7 kg.
S n	H30467	11/4" x 8'	21/8 lb./1.0 kg.
•	H30468	1½" x 10'	2% lb./1.2 kg.
	H30469	1¼" x 12'	4 lb./1.8 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Sectional Disconnects and Universal Sticks

Tested per OSHA & ASTM F711



Features & Applications

Tested per OSHA & ASTM F711

• Non-conductive splices snap together for just the right job length

• Compact fittings interchange on orange Epoxiglas® insulated

- Easily store in limited space
- Rounded metal buttons and stainless-steel springs for long life
- Silicone coating and gloss finish seal out moisture



1¹/₄"-diameter Pole

Disconnect

Catalog Number	Length	Approx. Weight

Disconnect

Standard Switch Head Disconnect

C4032073	6 inches	3/4 lb./0.34 kg.
C4032053	4 feet	2¾ lb./1.07 kg.
C4032054	6 feet	25/s lb./1.18 kg.
C4032055	8 feet	27/ ₈ lb./1.29 kg.

Non-Metallic Disconnect Head

C4032095	6 inches	1 lb./0.45 kg.
C4032060	6 feet	2½ lb./1.13 kg.
C4032061	8 feet	2¾ lb./1.22 kg.

Plastic Universal Head

C4032071	6 inches	5⁄8 lb./0.28 kg.
C4032046	4 feet	2 lb./0.90 kg.
C4032047	6 feet	2¼ lb./1.01 kg.
C4032048	8 feet	2½ lb./1.13 kg.

Tree Trimmer Head

C4032096	*2 feet	3¼ lb./1.46 kg.
C4032097	*4 feet	3½ lb./1.57 kg.

^{*}Length excludes trimmer head fitting.

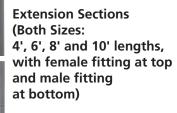
May 2014

Extension Section

Base Cap			
C4032133	10 feet	2¾ lb./1.22 kg.	
C4032064	8 feet	2½ lb./1.13 kg.	
C4032063	6 feet	2¼ lb./1.01 kg.	
C4032062	4 feet	2 lb./0.90 kg.	

	вазе сар	
C4032069	5 inches	½ lb./0.06 kg.

Note: For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.





1½"-diameter Pole

Catalog

Number	Length	vveignt		
Standard Disconnect Head				
C4032074	6 inches	1 lb./0.45 kg.		
C4032056	6 feet	31/8 lb./1.41 kg.		
C4032057	8 feet	35⁄8 lb./1.63 kg.		
C4032058	10 feet	41/8 lb./1.86 kg.		

Standard Universal Head

C4032072	6 inches	1 lb./0.45 kg.
C4032049	4 feet	2 ⁷ / ₈ lb./1.29 kg.
C4032050	6 feet	3¾ lb./1.52 kg.
C4032051	8 feet	3 ⁷ / ₈ lb./1.74 kg.
C4032052	10 feet	41/8 lb./1.86 kg.

Extension Section

C4032065	4 feet	2 lb./0.90 kg.
C4032066	6 feet	2½ lb./1.13 kg.
C4032067	8 feet	3 lb./1.35 kg.
C4032068	10 feet	3½ lb./1.57 kg.

C4032070	5 inches	½ lb./0.11 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Approx.

Page 2113

CHANCE Epoxiglas® POWER-FUSE LIFT STICK

Storage Bag Included

Features & Applications

- Tested per OSHA & ASTM F711
- Removes and installs power fuse holders up to 50 lbs.
- Unlike hookstick, operator never has to balance and lift dead weight when lifting
- Epoxiglas® pole is tested to ensure insulating strength
- Operating lines are made with polypropylene rope
- Plastisol-coated carrier bands and shepherd hook attachments
- Disconnect prong is located on bottom ferrule of tool

Operation

- During fuse holder removal and replacement, fuse mount supports weight of fuse holder and tool
- Ropes and pulleys for lowering and raising power fuse holder much like flag on flagpole
- Operator has complete control of fuse holder at all times
- Pole hangs free so operator can easily steady it during raising/lowering operation
- Only during the actual opening and closing of power fuse does operator support tool weight
- To remove power fuse, hook carrier prong into eye on lower inverted end of fuse holder, lift fuse holder out of contact trunnions, then lower carrier





How To Remove A Power Fuse — Hook carrier prong into the eye on the inverted lower end of fuse holder. Lift the fuse holder out of the contact trunnions, then lower carrier.





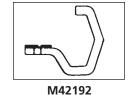


M4221

M42212

M42213





Operating lines must be kept clean and dry to avoid dangerous current flow in the rope.

TABLE I — POWER-FUSE LIFT STICK

Each includes an all-weather storage bag.

How to Order — Select one of the Power Fuse Lift Sticks from Table I, based on the desired pole length.

Catalog No.	Diameter and Overall Length	Weight
H422114	1½" x 14'1"	10½ lb.
H422116	1½" x 16'1"	11¼ lb.

Then, in Table II, find the applicable Power Fuse Type and select the Fuse attachment that is to be installed at the top of the Lift Stick.

TABLE II — POWER FUSE ATTACHMENTS

	Catalog No.	For Power Fuses	Weight
,	M4221	S&C SM, Size 5	14 oz.
:	M42212	S&C SMD; West'g're BA & DBA; GE. EF-1,	11//s lb.
		EF-1B & EF-2B	
	M42213	S&C SM & HSO; S.S. HBA & BTA; West'g'e	1½ lb.
		BA & DBA; G.E. EF-1, EF-1B, & EF-2	

Finally, in Table III, again find the applicable Power Fuse type and select the Lift Finger to be installed on the Carrier.

TABLE III — CARRIER LIFT FINGERS

	., (222 0, ((((1))))	
Catalog No.	For Power Fuses	Weight
M42191	West'g' BA & DBA; S&C SM, SMD, & HSO;	4 oz.
	G.E. EF-1, EF-1B & EF-2	
M42192	S.S. HBA & BTA	7 oz.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2114 May 2014

TIE STICKS

Features & Applications

- Tested per OSHA & ASTM F711
- Made with variety of heads for versatile lineman needs
- Rotary Prong Tie Sticks guickly and easily handle looped ties
- Two-Prong Tie Sticks effectively handle hot ties with loops
- Rotary Blade Tie Sticks swivel for greater freedom of movement than fixed-blade types

Catalog	TIE STICKS		Overall	Approx.
No.	Head End I		Length	Weight
H185519	Rotary Prong	Universal	8'3"	3 lb./1.4 kg.
H185520	Two-Prong	Universal	8'4"	4 lb./1.8 kg.
H185525	Rotary Prong	Rotary Blade	8'2"	3½ lb./1.6 kg.
H185526	Rotary Blade	Universal	8'3"	3¼ lb./1.5 kg.

For universal tool accessories, see Pages 2120 through 2126.







Rotary Prong

Two-Prong

Rotary Blade

All Tie Sticks are mounted on 11/4" diameter Epoxiglas poles with a tie-wire assistant, hanger bracket.

H185526

ALL-ANGLE COG WRENCH

Features & Applications

- Tested per OSHA & ASTM F711
- 15 ft-lb maximum torque rating
- Controls permit operator efficiency in locating the wrench on energized hardware
- Handgrip steadies tool and holds cog housing in place while pole is rotated, turning cogs to engage wrench on the nut or bolt
- Wrench head angle in relation to handle is adjustable within a range of 140°
- Wing nuts on either side of head tightens to hold head in position during use
- Chance Epoxiglas® Hot Line Tool is 1-1/2" in diameter with 3/8" diameter fiberglass control rod
- Aluminum alloy handgrip, bronze alloy cog housing, and hardened steel gears

Catalog	All-Angle Cog Wrench	Approximate
No.	Description Weight	
C4030184	6-foot length	7 lb./3.2 kg.
C4030185	8-foot length	7½ lb./3.4 kg.
C4030186	10-foot length	8 lb./3.6 kg.
PSC4030187	12-foot length	9 lb./4.1 kg.

½-inch square drive C4030184

CABLE LIFT TOOL

Features & Applications

- · Originally designed to move heavy electrical cables in mines
- Also serves as efficient method of moving heavy cables on the ground
- 40" long and has two ½"-diameter spiral grab hooks
- Will pick up cables up to 2" diameter by rotating the tool only quarter turn



Catalog No. Description Weight C4031078 40" Cable Lift Tool 3\% lb./1.5 kg.

C4031078



Turn the tool 90° clockwise, to slip hooks

Lift the cable and move to desired position.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

May 2014



Flexible Insulated Wrenches



- Universal joint coil spring gives operator flexibility to control socket at various angles
- Spring is easily removed for lubrication
- Wrenches are made to fit any ½" squareshank socket
- All wrenches are mounted on 1-1/2"-diameter Epoxiglas® poles

Catalog		Overall	Approx.
Number	Description	Length	Weight
H18912	w/Flexible ½" Sq. Plug and	6'3"	5½ lb./2.5 kg.
	Fixed ½" Sq. Plug		
H18913	w/Flexible ½" Sq. Plug and	8'3"	6½ lb./2.9 kg.
	Fixed ½" Sq. Plug		
	w/Flexible ½" Sq. Plug and		
H18915	Univ. Head - Hole Through Ferrule	6'3"	5½ lb./2.5 kg.
	for 5/8" Turning Rod		
	w/Flexible ½" Sq. Plug and		
H18916	Univ. Head - Hole Through Ferrule	8'3"	6½ lb./2.9 kg.
	for 5/8" Turning Rod		
066780	Ratchet Wrench		1½ lb./0.7 kg.
	I	I	

Note: For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.

Heavy-Duty FLEXIBLE INSULATED WRENCHES — 75 ft.-lb. torque rating



Features & Applications

- Tested per OSHA & ASTM F711
- 75 ft-lb torque rating
- Standard square socket in lower end accepts ½" square-shank ratchet or similar hand tools
- Square shank on upper end fits any ½"-drive socket
- Mounted on 1-1/2" diameter Epoxiglas® extensions
- Used for tightening nuts on hardware fittings on high-voltage lines
- Universal joint coil spring limits flexibility, giving operator socket control at various angles
- Spring easily removes for lubrication

Catalog No.	Overall Length	Weight, each
C4032137	6 ft. 3 in.	5½ lb./2.5 kg.
C4032136	8 ft. 3 in.	6½ lb./2.9 kg.

Epoxiglas® Torque Extension Stick for hydraulic power tools

Features & Applications

- Tested per OSHA & ASTM F711
- 75 ft-lb torque rating
- Designed for hot-line work with hydraulic tools on bucket trucks
- 7/16" hexagonal quick-connect fitting couples with a power tool's drive socket
- Square detent-ball fitting accepts all ½'-drive wrenches
- 1-1/4" x 4' Epoxiglas® pole handguard is 6" from ferrule with hex fitting

Catalog No.	Description	Weight
T4033009	Torque Extension Stick	5 lb./2.25 kg.

HEX SOCKET SETS

Features & Applications

- Available in SAE and metric sizes
- Each set includes sockets to fit any ½" (12.17 mm) squareshank tool (such as the Chance All-Angle Cog Wrench and Flexible Insulated Wrench)

SAE (in.) Set Catalog No. C4031085 includes 11 deep-well 6-point sockets in sizes from ¹/₂" through 1 ¹/₈"



Tested per OSHA & ASTM F711

METRIC Set Catalog No. C4031085M includes 10 deep-well 6-point sockets in sizes from 10mm through 19mm



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2116 May 2014

AMERTONGS





Fits most meters up to 3.25" width

Trigger at end of operating rod controls roller to open and close ammeter jaws.

Features & Applications

- Tested per OSHA & ASTM F711
- Can be adjusted at collar to fit an ammeter
- Plastic-coated castings securely grip while protecting the meter's finish
- Fiberglass operating rod for maximum insulation

Catalog No.	Description	Pole Dia. and Overall Length	Weight
catareg res	2 6561.154.611		
H19686	Amertong	1½" x 6'3"	4 lb./1.8 kg.
H19688	Amertong	11/4" x 8'3"	4½ lb./2.0 kg.
H19786	Hinged Amertong	11/4" x 6'3"	5 lb./2.3 kg.
H19788	Hinged Amertong	11/4" x 8'3"	5½ lb./2.5 kg.

PLASTIC HEAD FOR UNIVERSAL TOOLS

Features & Applications

- Sized to retrofit over 1-1/4"-diameter Chance Epoxiglas® hot-line tools
- Available in kit form for shop installation
- For users concerned about hotsticks with metal ferrules that could draw an arc or effect a short circuit in close-clearance worksites



Kit includes:

- Black plastic (glass-filled nylon ferrule with splines to accept Chance Universal Tool Accessories (Catalog pages 2120 - 2127)
- o Thumbscrew to hold the accessory in use
- o Two drive screws
- o Instruction tag
- Simple procedure requires attaching ferrule to pole with Epoxiglas® Bond Kit H1917, drilling through holes and installing the drive screws

Catalog No.	Description	Weight
C4031996	Plastic Universal Head Kit:	
	Ferrule, Thumbscrew, 2 Drive	5 oz./0/.14 kg.
	Screws, Instructions	3 02.707.14 kg.

HEAVY-DUTY END CAP





Catalog No.	Description
P4032312P	Heavy-Duty End Cap for 1¼" Epoxiglas pole

Features & Applications

- Designed to withstand rough working conditions
- Quickly fits on any 1-1/4"-diameter pole with Chance Epoxy Bond Kit, Catalog No. H1917
- Molded nubs on exterior, ball shape, and thick walls cushion repeated impacts of use
- Black ethylene vinyl acetate material provides optimum resistance to abrasion and cuts

THREADED HEX FITTING & UNIVERSAL POLES



Features & Applications

- Tested per OSHA & ASTM F711
- Insulating black plastic ferrule accepts threaded-stud fitting unique to Safety Line brand interchangeable tool accessories

Catalog No.	Description	Weight
P4032252P	Plastic Hex Ferrule only	6 oz./0.17 kg.



Both Ends: Plastic Hex Ferrules Installed

C4001585	6-foot length	21/4 lb./1 kg.
C4001586	8-foot length	3 lb./1.4 kg.
C4001587	10-foot length	3¾ lb./1.7 kg.

- Made from same glass-filled nylon materials as Chance universal-tool ferrules
- Extends insulation to end of tool handle
- Ferrule may be ordered either separate for retrofit on customer poles or factory-installed on 1-1/4"-diameter Epoxiglas® poles



Plastic Hex and Chance Universal* Ferrules

Catalog No.	Description	Weight
C4001582	6-foot length	21/4 lb./1 kg.
C4001583	8-foot length	3 lb./1.4 kg.
C4001584	10-foot length	3¾ lb./1.7 kg.

^{*}Thumbscrew included with Chance universal fitting.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

May 2014 Page 2117



Note: For SAFETYSHIELD™ Hot Stick Barrier to fit tools on this page, see page 2129.

Universal Poles



Features & Applications

- Tested per OSHA & ASTM F711
- Designed for use as a hotstick handle for Universal Tools
- Made with Epoxiglas® and lightweight aluminum castings
- Universal Tools shown on following pages fit under the thumbscrew of the spline on the Universal Pole
- Splines allow angling the tool up to 90° depending on individual tool design
- Universal Adapter M445584 (shown on page 2123) may be added between the pole and tool to gain any angled desired

Storm Tool for Bad Weather

- A Universal Pole with special rubber insulator skirts, designed for emergency use
- Provides extra leakage distance and disrupts water paths
- Skirts break up water streams that would otherwise run down pole

Universal Fittings for Spliced Poles

- Universal fittings are threaded for use on Epoxiglas® poles with Rigid Splices
- Also see Catalog Section 2500 for Rigid Pole Splices and Epoxiglas® Blank Poles







Spliced Poles H17602 & H17606

Catalog	Description	Pole Dia.	Overall	Weight
No.			Length	
PST4032913	Pole with one universal head	11/4"	4'2"	1.9 lb./0.9 kg.
H1760	Pole with one universal head	11/4"	8'2"	3.4 lb./1.5 kg.
H17601	Pole with one universal head	11/4"	6'1"	2.7 lb./1.2 kg.
H17602	Rigid spliced pole with one universal head	11/4"	4'1" +4'	5.5 lb./2.5 kg.
H17603	Pole with two universal heads	11/4"	6'3"	3.1 lb./1.4 kg.
H17604	Pole with two universal heads	11/4"	8'3"	3.8 lb./1.7 kg.
H17606	Rigid spliced pole with two universal heads	11/4"	4'1" + 4'1"	5.8 lb./2.6 kg.
H176010	Pole with two universal heads	11/4"	10'3"	4.6 lb./2.1 kg.
H176012	Pole with two universal heads	11/4"	12'3"	5.3 lb./2.4 kg.
H176014	Pole with two universal heads	11/4"	14'3"	6.1 lb./2.8 kg.
PST4032914	Universal storm tool with two skirts and one universal head	11/4"	4'3"	2.2 lb./1.0 kg.
H1761	Universal storm tool with two skirts and one universal head	11/4"	8'2"	3.6 lb./1.7 kg.
H1770	Hinged pole with one universal head	11/4"	8'2"	5.4 lb./2.4 kg.
H17908	Pole with two universal head, pole hanger	11/2"	8'3"	5.8 lb./2.6 kg.
H179010	Pole with two universal heads	11/2"	10'3"	6.7 lb./3.0 kg.
H179012	Pole with two universal heads	11/2"	12'3"	7.7 lb./3.5 kg.
H179014	Pole with two universal heads	1½"	14'3"	8.8 lb./4.0 kg.
H4455	Universal head only	11/4"	_	0.25 lb./0.11 kg.
H4455A	Universal head only	11/2"	_	0.33 lb./0.15 kg.
P4030467P	Replacement Thumbscrew		-	

Crossarm Tool Hanger

Features & Applications

• Adjustable to crossarms in widths from 3-1/4" to 4-1/2" in width (depth of crossarm does not matter)

Catalog No. Description		Weight	
M1860	Crossarm Tool Hanger	2 lb./.9 kg.	

 Crossarm Tool Hanger is made of strong, lightweight aluminum alloy and cadmiumplated steel hardware





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

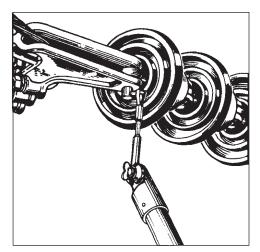
Page 2118 May 2014

Universal Tool Kits



Features & Applications

- Over 75 individual Universal Tools to select from for various maintenance jobs
- Kits are a convenient way of ordering, with one single catalog number shipped in a single carton – one number for the complete set



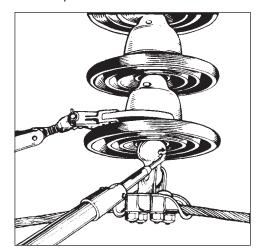
Universal Tool Kit for Clevis Type Insulators C4031112

 10-piece kit contains the Universal Tools normally used to handle cotter keys, bolts and insulator hardware for insulator control on Clevis-tongue type suspension or deadend insulator strings.

C4031112 Kit consists of

Part No.	Description	Cat. Page Ref.
M44552	Pin Holder	2120
M445512	Cotter Key Remover	2120
M445515	Locating Pin	2120
M445538	Clear Vision Mirror	2122
M445539	Shepherd Hook	2122
M445567	Insulator Fork	2122
M445582	Cotter Key Tool	2123
M445584	Universal Adapter	2123
C4030177	All Angle Pliers	2125

- Most frequently used tools by hotstick crews were selected by Chance Hot Line Tool Demonstrators
- Although all Universal Tools shown on the following pages are still available as individual part numbers, ordering one or more of the following kits will cover most tool requirements



Universal Tool Kit for Ball Socket Insulators C4031113

 This 7-piece kit contains those Universal Tools required to handle cotter keys, bolts and hardware on ball and socket type suspension or deadend insulator.

C4031113 Kit consists of

Part No.	Description	Cat. Page Ref.
M445512	Cotter Key Remover	2120
M445519	Cotter Key Pusher	2121
M445522	Ball Socket Adjuster	2121
M445538	Clear Vision Mirror	2122
M445567	Insulator Fork	2122
M445596	Ball Socket Cotter Key Remover	2124
C4030177	All Angle Pliers	2125

Complete Kit for Hot Stick Trailer — C4031114

 Tool trailers are usually equipped for maximum efficiency for a variety of hot stick jobs. This 21-piece kit contains the Universal Tools most frequently used with Chance Tool Trailers.

C4031114 Kit consists of

Part No.	Description	Cat. Page Ref.
M44552	Pin Holder	2120
M44555	Cutout Tool	2120
M44556	Ratchet Wrench	2120
M445512	Cotter Key Remover	2120
M445515	Locating Pin	2120
M445522	Ball Socket Adjuster	2121
M445528	Screw Driver	2121
M445538	Clear Vision Mirror	2122

Part No.	Description	Cat. Page Ref.
M445539	Shepherd Hook	2122
M445546	Wrench Head	2122
M445567	Insulator Fork	2122
M445579	Spiral Disconnect	2123
M445582	Cotter Key Tool	2123
M445584	Universal Adapter (2 Furnished)	2123
M445596	Ball Socket Cotter Key Remover	2124
M4455102	Clevis Pin Installer	2124
M4455103	Cotter Key Tool	2125
C4030011	Knocker	2125
C4030126	Ball Socket Adjuster	2125
C4030177	All Angle Pliers	2125

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



May 2014 Page 2119

CHANCE®

Universal Tool Accessories

--- See Universal Tool KITS on Page 2119 ---



Pin Holder

For replacing pins and bolts. Bolt head fits into a slot and is held tight by spring action. Will take bolts or pins up to 5/8" diameter. Fits EEI and NEMA insulators.

Part No. M44552.....10 oz.



Hammer-like action makes it extremely useful in pulling out stuck cotter keys. Release of the compression spring by a

quick jerk of the pole deals the cotter key a hammer blow without disengaging the eye.

Part No. M445512.....8 oz.





Cutout Tool

While this tool was designed for removing and replacing the doors of enclosed cutouts, its finger-like grasp makes it useful on many other jobs where a sure grip is required. Jaws open to accommodate an object 3-3/4 " wide. All parts that contact porcelain are plastisol covered.

Part No. M44555.....13/4 lb.

Locating Pin

Used as a drift pin in aligning bolt holes as an aid in bolt and pin insertions. Recommended for making hardware connections on tower transmission lines and line deadends where aligning or hardware fitting is difficult.

Part No. M445515..... 10 oz.





Ratchet Wrench

1/2"-square drive

This Ratchet Wrench is used for tightening bolts in substation equipment, hardware, transmission and distribution lines, etc.

Part No. M44556......13/4 lb.

Folding Rule

Adaptable to many uses. Particularly suited for obtaining measurements near live conductors in congested areas.

Part No. M445516....8½ oz.





Disconnect

Used for opening and closing switches, opening enclosed cutouts, etc. Aluminum:

Part No. M44559......2 oz.

Bronze:

Part No. C4001418.....6 oz.

Fixed Prong Tie Stick Head

Often preferred for manipulating tie wires which have looped ends. Useful in close quarters where loose ends of tie wire must be rolled up to prevent contact with crossarm or hardware while untying.

Part No. M445517.....1 lb.

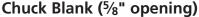




Chuck Blank (5/8" opening)

Screw drivers, hack saws, and other tools may be inserted in this device and secured by soldering. For wingnut tightened Chuck Blank order No. M445537.

Part No. M445510......4½ oz.



The Chuck Blank can be used for a variety of applications, such as inserting screw drivers, saws, etc. The wing nut tightens the installed tool.

Part No. M445537...... 5 oz.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2120 May 2014

—— See Universal Tool KITS on Page 2119 ——



Cotter Key Pusher

For ball and socket insulator coupling. Straight end of the tool enters the socket opening to force cotter key out. Curved end forces cotter key back into position.

Part No. M445519...... 9 oz.



These saws can be used with Chance Pistol-Grip Handle, Tree Trimmers, Universal or Telescoping Tools.

C4032213 8 oz.



Ideal for a number of odd jobs where an insulated handle is needed.

Part No. M445528.....3½ oz.



Ball Socket Adjuster

Useful in controlling the adapter between clevis clamps and ball and socket insulator pins.

Part No. M445522......9 oz.

Universal Cutout Tool

4-in-1 tool for 100 amp fuse holders and Chance Electronic Sectionalizer. Works on major brands of cutouts (ABB, Chance, S&C) for easy lift out, placement, *opening and closing operations. Holds fuse holder in inverted position, more secure method than a disconnect prong. Lightest weight of its kind (other designs can weigh nearly twice as much).

PSC4033484 4 oz.

*When opening a cutout, follow all work rules and OSHA regulations. Not for use with loadbreak cutouts.



16.1"

Clamp Stick Head

A Universal Clamp Stick Head for use with Eye Screw Grounding Clamps.

The 6" head is for long eye screw grounding clamps.

Part No. M445529B (6") 11/4 lb.



P4030369P..... Blade only

Part No. M445523...... 1 lb. 12 oz.

Excellent for use at various angles where a hack saw is

needed near energized conductors, comes with 10 blades.

Hack Saw

May 2014

Paint Brush

A three-inch brush for painting around live apparatus. Useful for applying conductor paint on insulator heads.

Part No. M445525.....9 oz.

Link Stick Head

Use with light conductors. The clamp will hook into a cum-a-long ring. Jaw openings range from .750 to .22. Jaws have rounded edges to prevent scarring conductors. The hook is made of heat-treated aluminum alloy. Screw is Everdur.

Part No. M445536.....1 lb.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



--- See Universal Tool KITS on Page 2119 ---



Clear Vision Mirror

Angle adjustment enables the operator to inspect insulators, switch bases, and other equipment which is difficult to see without coming in contact with energized conductors.

Part No. M445538..... 14 oz.



V-position of brushes gives 2-sided cleaning action. As brushes wear, they can be rotated, by loosening the anchor screws, so that unused bristles will come in contact with conductor.

Part No. M445563..... 11 oz. Part No. M1889 With Hand Grip16 oz.

Part No. M1899 Box of 10 Replacement Brushes...... 5 lb.



Shepherd Hook

The self-aligning shepherd hook is designed for pulling and lifting insulator strings. Swivel action permits it to rotate and maintain its alignment with the insulator at all times. Heat treated aluminum alloy.

Part No. M445539.....14 oz.



A universal pole extension with rubber insulator skirts. Splined fitting at top of tool receives other universal tools. Overall length 19½".

Part No. H445564 1½ lb.



Fixed Blade Tie Stick Head

For manipulating tie wires with or without looped ends. The sharp V-notched blade gets into tight places to pry tie wires loose. The head is set at 60° angle from the pole when attached, for ease in operation.

Part No. M445540.....8 oz.

Pistol Grip Saw Handle

Developed for use with a pruning saw when limbs are convenient and insulation is not needed. Aluminum alloy.

Part No. M445566.....8 oz.



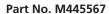
Flexible Wrench Head ½"-square drive

Made to fit standard wrench sockets. Flexibility permits use at various angles.

Part No. M445546......1 lb.

Adjustable Insulator Forks

Designed to grasp 9" and 10" disk insulators used in deadend construction, will raise most pin type insulators up to 15 lb. Fiber jaws open and close by rotating screw.



Jaws adjust from 3" to $4\frac{1}{4}$ " across inside center of fork..... 1 lb. 11 oz.

No. T4031101

For polymer insulators, jaws adjust from $2\frac{1}{4}$ " to $3\frac{1}{2}$ " 1 lb. 6 oz.



Skinning Knife

For cutting or scraping insulation, cleaning conductors, etc., prior to making splices. Its use with a universal pole permits work near energized lines with safety.

Part No. M445550......7½ oz.

Rotary Prong Tie Stick Head

For placing insulator ties with looped ends. Head treated aluminum alloy body. Prong swivels freely, permitting a full turn on the tie wire without releasing contact. This minimizes the possibility of kinking or burning the wires.

Part No. M445569..... 6 oz.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2122 May 2014

--- See Universal Tool KITS on Page 2119 ---



Rotary Blade Tie Stick Head

For manipulating tie wires with or without looped ends. The heat treated aluminum alloy body design permits a swivel action. Wire is wrapped or unwrapped without turning universal pole. A V-notched carbon steel blade grasps tie wire securely.

Part No. M445570...... 6 oz.



Spiral Disconnect

Extremely effective in opening switches and removing and installing cutout doors on porcelain enclosed type cutouts. Also called "Pigtail" Disconnect.

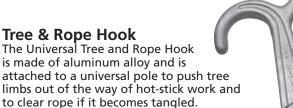
Part No. M445579......6½ oz.



Pointed Disconnect

A pointed disconnect head for use on certain types of disconnect switches. Made of aluminum alloy.

Part No. M445571..... 3 oz.



Part No. M445580......1 lb.



Conductor Gauge

This aluminum gauge is small, compact, and light. It is used to make a quick, accurate check on the gauge of ACSR, solid or stranded copper conductors.

Range: #4 Cu. through 4/0 ACSR. Part No. M445572......3 oz.

All-Purpose Cotter Key Tool

For pulling and replacing hump-type cotter keys. Particularly suitable for use on clevis pins and ball socket insulators. Easy guiding of cotter key provided by contoured slot and raised eye pin.

Part No. M445582.....5 oz.





Full Range Conductor Gauge

This aluminum gauge has multiple range scales to make a quick, accurate check on the gauge of Copper, ACSR, AAAC, AASC/ASC conductors. Includes hard shell storage case.

Range:

#4 ACSR through 954 kcmil ACSR. PSC4032956 9 oz.

Universal Adapter

When this adapter is mounted on a universal stick and any universal tool is mounted on the adapter, the tool can be set at almost any angle to the stick. Useful for working in limited access areas.

Part No. M445584.....5 oz.



May 2014

Fuse Puller

The Chance Fuse Puller may be preset to any position desired and locked there by tightening the wing nut. A spring assembly also permits the tool to be preset without locking, so that it will align with the fuse during the pulling operation. The Fuse Puller is opened and closed by turning the pole. Its jaws are plastisol covered.

Part No. M445577 (½" to 1½" Fuse)......1 lb. Part No. M445578

(1½" to 2½" Fuse).....2½ lb.

Hammer

Used for many operations around energized conductors such as moving conductors, suspension clamps and other pieces of hardware requiring a forceful blow.

Part No. M445585.....1 lb.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2123

--- See Universal Tool KITS on Page 2119 --



Ball Socket Adjuster

Used on heavy socket clevises, particularly where aluminum suspension and deadend clamps are attached to ball and socket insulators.

Part No. M445587......10 oz.



Semi-tubular shape allows linemen to clean 6" of entire circumference of conductor with two stick position.

Part No. M445592

 $1\frac{1}{4}$ " Dia. Tube with Universal Fitting......13 oz.

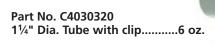




Bolt Head Wrench

Used on heads of 3/4" and 5/8" dia. bolts to keep bolt from turning as nut is being tightened. Extremely useful on rural ridge pin type construction — outer edges of wrench are tapered so that they can be wedged between flanges on channel and bolt head to keep bolt from turning.

Part No. M445588. 1 lb. 2 oz.



Part No. M445593 1¹/₄" Dia. Tube only......5 oz.



Cotter Key Puller

This Cotter Key Puller is used to partially withdraw a ball-socket cotter key so that the insulator can be removed from another insulator hanger. This puller with its thin prong is preferred for prying out standard keys deeply set on long insulator strings.

Part No. M445596.....12 oz.



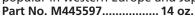
Ratchet Wrench

This Ratchet Wrench is for tightening square nuts on %" pole line hardware, regardless of the length of the bolt running beyond it. The long socket permits wrench handles to swing past crossarm when tightening top ridge pin

Part No. M445589..... 2½ lb.

Tool for "W" Kevs

This tool is used for handling the "W" shaped keys used in suspension insulators which are popular in western Europe and Japan.





Super Tester Adapter

Designed for attaching a Super Tester (H1990ST, Section 2450) to a Grip-All, a Universal Pole or a Positive-Grip Stick. With this adapter the tester can be used in any position, above or below the lineman.

Part No. M445598.....5 oz.



Aerosol Can Holder

By pulling the rope on this tool, a prong reaches out to depress the nozzle of an aerosol can to apply G.E. Insuliel to insulators or insecticides to bee and wasp nests on poles and crossarms. Also useful for applying paint, lubricant, etc., in hardto-reach places.

C403227012 oz.

Clevis Pin Installer

This tool has particular application on EHV hardware and insulators where the pin must be placed in semi-recessed areas. The threefinger device is spring-loaded with cadmiumplated music wire for positive grip.

Part No. M4455102.....1 lb.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2124 May 2014

--- See Universal Tool KITS on Page 2119



Cotter Key Holder

Used to install cotter keys into semirecessed hardware such as found on EHV, this tool will hold the keys in position for proper insertion into clevis pins. The tool will hold the key firmly, yet readily release once engagement is made

Part No. M4455103.....1 lb.



and Socket Adjuster prevents damage to Epoxilator distribution deadend insulators during lifting or rotating of the insulator. Arms of the tool are designed to fit between the skirts of the insulator.

Part No. C4030175.....12 oz.





Cotter Key Tool

Used for ball and socket insulator couplings, this tool is used to push the cotter key into position where great force is required.

Part No. C4030005......11/4 lb.



Cotter Key Tool

The Cotter Key Tool is a companion tool to Part No. C4030005, both designed for ball and socket type insulator couplings. C4030005 enters the socket opening to force the cotter key out while C4030006, shown here, forces the key back into position. Effectiveness of both tools is enhanced with the use of the Universal Knocker.

Part No. C4030006......11/4 lb.



Knocker

Designed to knock out and pull the cotter keys on fog-type insulators, the Knocker Tool is spring assisted for greater impact in restricted space and under adverse working conditions. The Knocker has a standard universal fitting one end and a Universal fitting one end and a Universal fitting with wingnut on the other end to receive various Cotter Key Tools at top of this page. Part No. C4030011.....10 oz.



May 2014

Ball Socket Adiuster

Similar to the M445587 Chance Ball socket Adjuster, this Adjuster is designed to handle socket adapters up to $2\frac{3}{4}$ inches wide.

Part No. C4030126......14 oz.

All-Angle Pliers

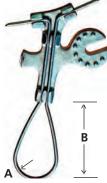
Designed to grasp from any angle, and tighten by clockwise rotation of the Universal Tool handle. The jaws are held firmly in position with a wing-nut. Used as a holding device for retaining bolt heads and loose hardware, adjusting arcing horns, replacing cotter keys, etc.

Part No. C4030177......1½ lb.



Hot Rodder Tool

Ideal for applying line ties and other formed wire products on energized lines. The smaller unit (C4031071) is particularly adaptable to Super Top-Ties® The loop type work end permits rotational control which is difficult with conventional tying



Part No.	Dim. A.	Dim. B.	Weight
C4031071	17/ ₃₂ "	13/4"	12 oz.
C4030834	11/ ₁₆ "	3"	13 oz.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2125



Tie Wire Claw

Features & Applications

- Hand-like hot-line tool easily and neatly applies tie wires, both factory- and field-formed
- With grip equal to pliers, securely wraps tight coils onto conductors
- Available either as a Universal Tool accessory with splined fitting or ferrule style mounted on insulated Epoxiglas® handles



Tie Wire Claw C4031416 Universal Tool Fitting



ORDERING INFORMATION

Tool Head only

Catalog No.	Description	Weight
C4031416	Tie Wire Claw/Universal Fitting	½ lb./0.2 kg.

Epoxiglas Handle with Tool

Catalog No.	Description	Weight
C4031764	6' x 1¼" Handle/Tie Wire Claw	3 lb./1.35 kg.
C4031765	8' x 1¼" Handle/Tie Wire Claw	4½ lb./2 kg.

Tested per OSHA & ASTM F711

Utility Head

Features & Applications

- Gator-look shape makes this tool popular for many hotline jobs
- Designed for placing/removing blocks, slings, circuit breakers, line hooks and strain breakers
- Available either as a Universal Tool accessory with splined fitting or ferrule style mounted on insulated Epoxiglas[®] handles

ORDERING INFORMATION

Tool Head only

Catalog No.	Description	Weight
C4031417	Utility Head/Universal Fitting	½ lb./0.2 kg.

Epoxiglas Handle with Tool

Catalog No.	Description	Weight
C4031766	6' x 1¼" Handle/Utility Head	3 lb./1.35 kg.
C4031767	8' x 1¼" Handle/Utility Head	4½ lb./2 kg.

Tested per OSHA & ASTM F711





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

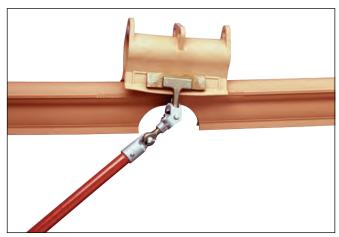
Page 2126 May 2014

CHANCE®

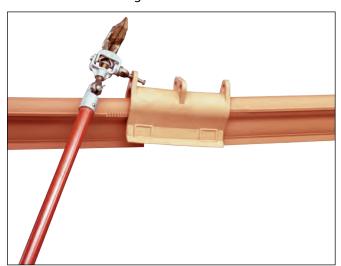
Hot Line Applicator Tools for Rubber Line Hose & Blankets

Features & Applications

- Designed to grasp the extended lip on Class 4 rubber line hose
- Also permits placement/removal of rubber cover-up blankets with insulated hotsticks
- Available in two styles to fit either clampsticks or universal hotsticks
- Each style comes in three wood blade lengths



 Especially useful for hose couplers, tools with 6" blades also may be used to position rubber blankets and shorter line hose lengths



 Prong on universal tool may be used in several techniques to remove and place line hose couplers, insulator hoods and rubber blankets



- Grip-All clampstick operates applicator tool to install Class 4 line hose with ease
- Simply rotating the stick clockwise tightens the tool's grasp on the hose lip



- Universal tool mounts by its fitting with thumbscrew
- Adjustable hinge feature can be set at various working angles simply by unscrewing the prong, meshing the pivot cogs and tightening the prong again.

Catalog No.	Description	Weight
C4032525	Universal Tool 6"	1.7 lb./0.8 kg.
C4032526	Universal Tool 24"	2.5 lb./1.1 kg.
C4032527	Universal Tool 36"	3.0 lb./1.4 kg.



- Beveled top corner on each blade end helps insert tool between hose lips
- Notice that blades fit in flat area recessed full length on outside of one hose lip



Clampstick tool features an eyescrew similar to grounding and tap clamps

Catalog No.	Description	Weight
C4032505	Clampstick Tool 6"	1.7 lb./0.8 kg.
C4032506	Clampstick Tool 24"	2.5 lb./1.1 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

May 2014 Page 2127



Fuse Grappler Tool

- Features & Applications

 Helps remove and install power fuses and barriers in pad-mounted switchgear
- Specifically fits S&C Electric Company power fuses SM-4Z, SM-20, SML-4Z and SML-20
- Designed to be attached to an insulated universal tool
- Tool features aluminum casting with plastisol coating on hooks to help avoid scuffing









Ordering Information

Catalog No.	Description	Weight
C4033284	Fuse Grappler Tool	½ lb. / 0.23 kg.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2128 May 2014



SAFETYSHIELD™Hot Stick Barrier

Features & Applications

- Mounts on 1-1/4" or 1-1/2"-daimeter live line tool in less than a minute
- Adds up to a 24"-diameter protective screen between linemen and a electrical hazard
- Used by major electric utilities, co-operatives, contractors and industrial customers in the U.S. and abroad
- Fits on clampsticks, disconnect sticks, and elbowpuller tools
- Should be mounted on the hotstick nearest the point where an electrical arc flashback may occur
- Made with a flame-retardant transparent polycarbonate protective shield
- Shield is affixed with a nylon fastener to a glass-filled nylon clamp

Tested per ASTM Standard F2522-05: Test Method for Determining the Protective Performance of a Shield Attached on Live Line Tools or on Racking Rods for Electrical Arc.





Available in three diameters

Available in time additions			
Catalog No.	Diameter	Weight	
PSC4170627	16" (406.4 mm)	1 lb. 6 oz. /0.62 kg.	
PSC4170628	21" (533.4 mm)	2 lb. 6 oz./1.08 kg.	
PSC4170629	24" (609 mm)	2 lb. 14 oz./1.3 kg.	





Page 2129

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

May 2014

CHANCE®

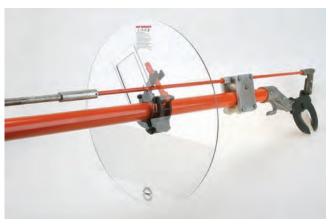
SAFETYSHIELD™Hot Stick Barrier

Hot Stick Barrier for Ratchet Wire Cutters[†]

Features & Applications

- Mounts on 1-1/4" or 1-1/2"-daimeter live line tool in less than a minute
- Adds up to a 16"-diameter protective screen between linemen and a electrical hazard
- Used by major electric utilities, co-operatives, contractors and industrial customers in the U.S. and abroad
- Fits on clampsticks, disconnect sticks, and elbowpuller tools
- Should be mounted on the hotstick nearest the point where an electrical arc flashback may occur
- Made with a flame-retardant transparent polycarbonate protective shield
- Shield is affixed with a nylon fastener to a glass-filled nylon clamp







Tested per ASTM Standard F2522-05: Test Method for Determining the Protective Performance of a Shield Attached on Live Line Tools or on Racking Rods for Electrical Arc.



Ordering Information SAFETYSHIELD™ Hot Stick Barrier for Ratchet Wire Cutters†

Catalog No.	Diameter	Weight		
PSC4170630	16" (406.4 mm)	1 lb. 6 oz. /0.62 kg.		

[†]See Catalog Section 2150 for these Ratchet Wire Cutters: Catalog No. C4031381, C4031382, C4031383 & C4031384.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2130 May 2014



Meter Claw[™] and Safetyshield[™] Barrier

Added protection for pulling and installing electrical meters

- Transparent polycarbonate 24" diameter barrier for full view and protection
- Ergonomic handles for stable control, leverage and minimal fatigue, help prevent injuries from repeated pulls/installs
- Fit single and multi-phase meters (residential and commercial)
- Non-conductive jaws grasp back of meter base not just bezel





NOT RECOMMENDED: Improper/unsafe methods for loosening and removing meter by hand can result in injury/death due to breakage and electrical arcing.









Positioning on residential meter



Closing non-conductive jaws with actuating rod



Removing/pulling meter



Meter removed from socket base

NOTE: The two black ball-type handles may be grasped if using Meter Claw without Safetyshield barrier.



Catalog No.	Description
PSC4170638	Meter Claw [™] & Safetyshield [™] Barrier with Bag PSC4170643
PSC4170639B	Meter Claw™ with Bag PSC4170644
PSC4170639	Meter Claw [™] only (1 orange handle & 2 ball-type handles)
PSC4170640	Meter Safetyshield™ Barrier with Bag

Storage Bags*

PSC4170643	Bag for both Meter Claw™ & Safetyshield™ Barrier
PSC4170644	Bag for Meter Claw™ only



PSC4170641 Retrofit Kit for Meterpuller® by Rauckman Utility Products includes shield, adapter plate and four fasteners.



PSC4170642 Retrofit Kit for Meter Grabber by Utility Solutions includes shield, actuating rod with handle and two fasteners

Retrofit Kits - each includes a storage bag*

Catalog No.	Description
PSC4170641	Retrofit Kit for Meterpuller® by Rauckman Utility Products+
PSC4170642	Retrofit Kit for Meter Grabber by Utility Solutions

^{*}Storage bags are orange heavy-duty vinyl-impregnated fabric.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



May 2014 Page 2131

 $^{^{+}\}text{Meterpuller}^{\circ}$ is the registered trademark of Rauckman Utility Products.



Rescue Hook

Features & Applications

- Handle meets ASTM F711 and IEC 60855 specifications
- 3/4" high strength steel hook with 18" diameter and coated with black paint
- Hook mounted on a 1-1/4" diameter Epoxiglas® pole
- Available in 6' and 8' handle lengths

ORDERING INFORMATION

Epoxiglas Handle with Tool

Catalog No.	Description	Weight
PSC4033703	6' Rescue Hook	7.25 lb./3.29 kg.
PSC4033704	8' Rescue Hook	8.00 lb./3.63kg



Animal Catcher

Features & Applications

MUST BE USED WITH HOT STICKS — NOT FOR RUBBER GLOVE USE

- Universal attachment end for primary control
- Hot stick loop end for activation of the device
- Lightweight and compact design
- High-visibility orange storage bag

ORDERING INFORMATION

Catalog No.	Description
PSC4033614	Animal Catcher







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2132 May 2014

CHANCE®

Ratchet Cable Cutters for ACSR or Aluminum & Copper

Features & Applications

- Designed for easier operation
- Tested per OSHA & ASTM F711
- High-performance design incorporates Delrin rollers and two-piece operating rod
- Roller mechanism travels smoothly along main Epoxiglas® pole
- Linked through the roller support unit, the hinged operating rod and larger Epoxiglas pole reinforce each other
- Meet OSHA Electrical Rating subpart V-section 1926.951 (d)
- Insulated support pole is Chance orange 1-1/2"-diameter Epoxiglas with Plastisol butt cap



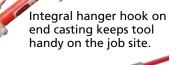
- Operating rod is 3/8"-diameter solid fiberglass rod
- Lever handle is 1"-diameter Epoxiglas with rubber cushion grip
- Four standard models offer practical 6-foot or 8-foot lengths with choice of cutter heads for soft wire or ACSR
- Shear-type steel blades cut without deforming cable
- Heads are interchangeable for field changeouts
- Soft-Wire Head cuts aluminum cable through 1000 kcmil bare (1.152") or jacketed URD (2.125") and copper through 556 kcmil (1")
- Spare cutters may be ordered separately below

Ratchet Cable Cutters

Catalog	Description		
Number	Length	Head	Weight
C4031381	6 ft.	1000 kcmil A.A.	11 lb./4.95 kg.
		500 kcmil Cu.	
C4031382	6 ft.	556 kcmil ACSR	11 lb./4.95 kg.
C4031383	8 ft.	1000 kcmil A.A.	11½ lb./5.18 kg.
		500 kcmil Cu.	
C4031384	8 ft.	556 kcmil ACSR	11½ lb./5.18 kg.

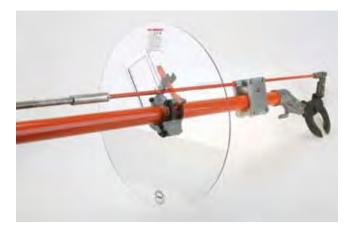
Cutter Heads Only

Catalog	Head	
Number	Description	Weight
P4031387P	1000 kcmil A.A.	21/4 lb./1 kg.
	500 kcmil Cu.	
P4031388P	556 kcmil ACSR	2 ¹ / ₄ lb./1 kg.



Improved Soft Wire jaws cut





Ordering Information SAFETYSHIELD™ Hot Stick Barrier for Ratchet Wire Cutters†

Catalog No.	Diameter	Weight
PSC4170630	16" (406.4 mm)	1 lb. 6 oz. /0.62 kg.

For more details on SAFETYSHIELD™ Hot Stick Barrier to fit tools above, see page 2130.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2152 September 2012

CONDUCTOR CUTTERS



with Insulated Handles for ACSR or Aluminum & Copper

Features & Applications

- Three standard models
- Choice of insulated long or short handles on cutters for soft wire, and insulated long handles on cutters for ASCR
- Chance orange 1½" diameter Expoxiglas® handles have black rubber cushion grips
- Shear-type blades cut without deforming cable
- Heat-treated tool-steel cutter heads are same as Chance Ratchet Cable Cutters
- Order replacement or spare cutter heads as separate items, below

- Note: ACSR head is not for use with 151/2" handles
- Soft-wire head must not be used to cut ACSR as it will damage the cutting edges
- Storage bags to fit short or long cutters should be ordered as separate items, below
- Storage bags are heavy-duty yellow vinyl-impregnated nylon cloth
- Cutters are designed for energized applications
- Users must wear rubber gloves and observe all applicable working clearances when cutting energized conductors



Conductor Cutters with Insulated Handles

Catalog	Len	gth	Maximum Size	Wei	ght
Number	Handles	Overall	& Type Conductor	lb.	kg.
C4031421	15½"	21½"	600 MCM A.A./350 MCM Cu.	41/2	2
C4031422	281/2"	35"	1000 MCM A.A./500 MCM Cu.	5½	2.5
C4031423	281/2"	33½"	336.4 MCM ACSR	5	2.2

Order Storage Bags and extra Cutter Heads as separate items, below.

Storage Bags Only

		·		
Catalog		For Cutters,	We	ight
Number	Size	Catalog Numbers	lb.	kg.
C3060023	8" x 23"	C403-1421	1/2	0.2
C3060000	12" x 38"	C403-1422 or	1/2	0.2
		C403-1423		

Cutter Heads Only

Catalog			
Number	Description	lb.	kg.
P4031387P	*1000 MCM A.A./	21/4	1
	500 MCM Cu.		
P4031388P	†336.4 MCM ACSR	21/4	1

*Rating for P4031387 Head on $28\frac{1}{2}$ " Cutter handles. Used on $15\frac{1}{2}$ " Cutter handles, rating for P403-1387 Head is 600 MCM A.A./350 MCM Cu. **Do not use to cut ACSR.**

†Rating for P4031388 Head on $28\frac{1}{2}$ " Cutter handles. P4031388 Head is not for use on $15^{1}/_{2}$ " Cutter handles to cut ACSR.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



September 2012 Page 2153



Ratcheting Cable Cutters for ACSR or Aluminum & Copper

Features & Applications

- Compact size gets into close quarters
- Half the size and weight of standard ratchet cutters
- Two styles of compact cutters
- Ratings match wide range of overhead and underground conductors
- For use in confined workspaces such as manholes and handholes
- Open in less than half the space required for longhandled ratcheting cutters
- Small size saves on toolbox and warehouse storage



Operation

- Single control allows easy switching of direction
- Pushing thumb slide toward head allows handle to open wider for rapid opening or closina
- Not for use when cutting this feature nearly doubles the speed of the "soft" cutters and makes the "hard" cutters open and close about three times faster than normal









- Release the thumb slide for shorter, more powerful strokes while cutting conductor
- Easy operation, rugged construction
- Design of compact cutters is based on simple ratchet mechanism for long service life
- Simple controls and sure ratcheting action makes working with them easy
- C-type jaws are heat-treated for lasting strength and sharpness
- Stampings on the jaws indicate application limits
- Despite their small size, they are built to take punishing field conditions
- · Reinforced-fiberglass handles are PVC-coated and protected by a vinyl sleeve
- Thick vinyl grips shield the handle ends and help worker keep a steady grasp
- Operating instructions are included with both cutter styles

These cutters are not insulated hot line tools.

Ordering Information

Catalog No.	Description	Weight		
C4032979	Soft Conductor Cutters	4¼ lb. (1.9 kg.)		
C4032980	Hard Conductor Cutters	43% lb. (2 kg.)		



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2154 September 2012



Insulated Hydraulic Cable Cutters

with guillotine-type jaw head For #6 Solid Copper (0.162" diameter) to 954 kcmil ACSR (1.16" diameter)

Features & Applications

- Tested per OSHA & ASTM F711
- Easy operation, powerful construction
- Single lineworker can easily cut large-gauge conductors with the power-assist of this tool's closed hydraulic system
- Operates like a hydraulic jack by simply pumping the handle
- Expoxiglas® pole, handle and hydraulic hose have been tested to 100kV per foot (ASTM F711)
- Hydraulic oil has dielectric strength of more than 25kV per ASTM D877
- Hose has minimum burst strength of 12,000 psi
- Pump provides 9,000 psi maximum pressure
- Maintenance and operating instructions are included with each tool



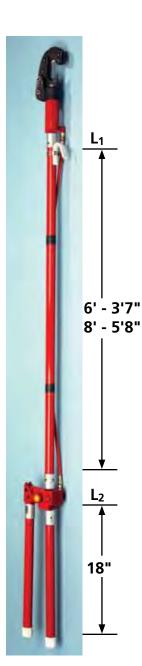


Hook-style jaw hangs on conductor to help position tool. Guillotine-type blades result in smooth, clean cuts.

Ordering Information

Catalog No.	Description	L ₁	L ₂	Weight
C4032861	6-ft. Hydraulic Cutters	3'7"	18"	18½ lb. (8.2 kg.)
C4032862	8-ft. Hydraulic Cutters	5'8"	18"	19¼ lb. (8.7 kg.)

NOTE: Epoxiglas® pole diameter is 11/4"





Hydraulic ram fully retracts in the Open position. For efficient cutting, upper and lower jaw edges are sharpened.



Single control knob selects direction. Notice: When storing tool, be sure to relieve hydraulic pressure by turning knob to

the Open position.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 2155



ALUMINUM WIRE CUTTER



Features & Applications

- Wire cutters have a heat treated steel cutter head designed to cut all-aluminum conductors
- Aluminum head and Chance Epoxiglas® handles combine to make an insulated lightweight tool for easy handling
- A lineman's preference for cutting aluminum jumper cables, conductors or tie wires
- Do not use this tool to cut ACSR conductors

Catalog		Pole Size	Conductor		
No.	Description	Dia.	Ranges	Length	Weight
C4030689	All-Aluminum	1½"	1.033.5MCM	6'	8½ lb./3.8 kg.
C4030690	Wire Cutters	1½"	1.033.5MCM	8'	10 lb./4.5 kg.

Tested per OSHA & ASTM F711

HYDRAULICALLY OPERATED CONDUCTOR CUTTER



Features & Applications

- Used to cut conductors up to 954 MCM ACSR, all-aluminum and 500 MCM copper
- Operation similar to a hydraulic jack
- Knob-handle is turned to enable lineman to operate pump handle
- When cut is completed, knob is turned in opposite direction to allow cutting head to open
- Epoxiglas pole, handle and hydraulic hose have been tested to 100 kV per foot (ASTM F711)
- Hydraulic oil has a dielectric strength of 25 + kV per ASTM D877-64
- Hose has a minimum burst strength of 12,000 PSI
- Pump provides maximum pressure of 9,000 PSI
- Features include jaws designed to cut without flattening conductor
- Jaws are adjustable to compensate for wear
- Hydraulic hose is located outside pole for easy maintenance
- Well balanced, requiring minimum effort to cut large conductors

Catalog No.	Length	Pole Dia.	Range	Weight
C4030731	6'	1½"	To 954 MCM ACSR	13 lb./5.9 kg.
C4030732	8'	11/4"	To 954 MCM ACSR	15 lb./6.8 kg.

Tested per OSHA & ASTM F711



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2156 September 2012

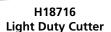


LEVER TYPE WIRE CUTTERS

Features & Applications

- Three different cutter heads are available for linemen to use for cutting jumper wires, live conductors and tie wires
- All cutters are assembled and mounted on chance Epoxiglas[®] insulated poles
- Solid fiberglass-reinforced operating rod insulates linemen from the cutter head
- Lever handle is coated with platisol
- Lever action gives linemen added mechanical force to make clean cuts up to the maximum sizes shown in the table below







Features & Applications

- Chance Epoxiglas® 1-¼" diameter handles may be easily attached to wire cutters or other hand tools
- For use in hot line maintenance or emergency repair work
- Does not include cutters (pair of Handles only)

Catalog		Overall	
No.	Description	Length	Weight
H18612	Handles Only	4'3½"	4½ lb./2.0 kg.

Tested per OSHA & ASTM F711

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 2157



TREE TRIMMERS

Features & Applications

- Designed to cut up to 1½" diameter branches
- Useful around energized conductors or in hard-to-reach places
- Head features sharpened stationary and movable blades made of dropforged steel
- Rope and pulley arrangement gives operator a mechanical advantage of 3 to 1
- Example: A 10-lb. pull on rope will exert a 30-lb. force on the cutter head lever
- Ball bearing pulleys are employed for free operation
- Rope furnished with each tree trimmer is 25' long
- Accommodates a 6' extension on the basic tool
- The 18" long Universal Tool Fitting is provided with 25' of rope
- A Universal Pruning Saw can be added to the universal fitting on the side of the head mount
- Spliced extensions fasten securely to the tool with leaf spring button lock



Tested per OSHA & ASTM F711

Catalog No.			Overall	Approx.
1½" Poles	11/4" Poles	Description	Length	Weight
H2006	H2106	Epoxiglas Tree Trimmer ●	6'10"	51/4 lb./2.4 kg.
H2036	H2136	2-Splice Extension **	6'	3½ lb./1.6 kg.
H2038	H2138	2-Splice Extension **	8'	4¼ lb./1.9 kg.
H2056	H2156	1-Splice Extension ▲	6'	3¼ lb./1.5 kg.
H2058	H2158	1-Splice Extension ▲	8'	4 lb./1.8 kg.

- Supplied with Male Splice Half-One End
- *** Male/Female Splices**
- ▲ Female Splice Half-One End

ACCESSORIES

Catalog No.	Description	Weight
H2020	Head Only for 1½" Epoxiglas Pole	1¾ lb./.8 kg.
H2120	Head Only for 1¼" Epoxiglas Pole	1¾ lb./.8 kg.
H21064	Universal Tree Trimmer, 18"	3½ lb./1.8 kg.
	Epoxiglas Pole	
P4032283P	Blade Only for Any Head	⅓ lb./.4 kg.
C4032213	Universal Pruning Saw	½ lb./.2 kg.



H21064

H2106



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2158 September 2012



Wire Tong Applications

The following information is intended to assist in the selection of the proper Wire Tongs for a particular

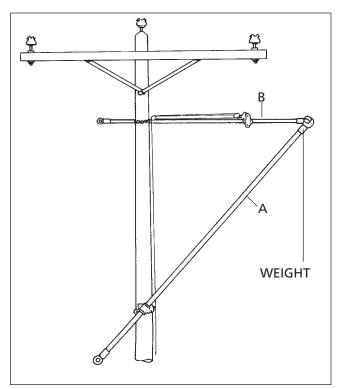


Figure 1 — Wire Tongs with saddles and wire tong blocks clamp on holding stick.

application and greatest load. Four popular application methods are shown on these pages.

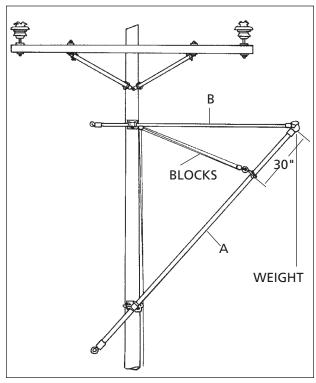


Figure 2 — Wire Tong with saddles and swivel wire tong band on lift stick.

WORKING LOADS FOR CHANCE WIRE TONGS*

	Pole Diame	ter (inches)		Maximum Working Load		mum Wire Feet)		l Span Ground)
Figure	Epoxiglas		Туре	(lb. per	,	CSR		per
No.	Α	В	Support	Conductor)	Size	Span	Size	Span
	2 x 12	1 ¹ / ₂ x 10	Saddles	275	4/0	700	4/0	300
1	2 ¹ / ₂ x 12	1 ¹ / ₂ x 10	Lever Lift	475	4/0	1200	4/0	500
	2 x 12	11/2 x 10	Saddles	275	4/0	700	4/0	300
2	2 ¹ / ₂ x 12	1 ¹ / ₂ x 10	Lever Lift	475	4/0	1200	4/0	500

^{*}Based on Tong "B" substantially horizontal. The lower the top saddle is placed below the conductor level, the greater the strain on Tong "A" and therefore the less load it can support.

NOTE:

(1) Supports

- Maximum recommended load for Saddles with extensions is 800 lbs.
- Lever Lift will exceed Wire Tong strength when load is properly applied in line with pole

(2) Working Loads

- Any elevated structure requires an analysis in determining the load
- When calculations are impractical or unnecessary, and a pole is slightly higher than neighboring poles, consider total weight of span on each side as maximum working load
- Does not apply to hilltop structures where special analysis must be made to determine load

 When working load is greater than that given in the table for a particular Wire Tong, it will be necessary to use double Wire Tongs with double-type lever lift, or use larger Wire Tong

(3) Epoxiglas® Working Loads

- Maximum working loads are based on a pole deflection of approximately one inch when used in manner shown
- Cantilever values, with a safety factor of more than two, are: 1-1/2" – 375 ft.-lb.; 2" – 900 ft.-lb.; 2-1/2" – 1500 ft.-lb.; and 3" – 2500 ft.-lb.
- Tensile strength values, with a safety factor more than two, are: 1-1/2" – 1500 lb.; 2" – 2000 lb.; 2-1/2" – 2500 lb.; and 3" – 3000 lb.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2202 March 2013



Wire Tong Applications

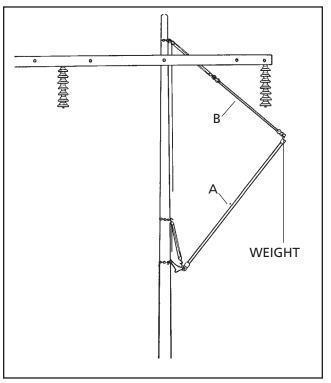


Figure 3— Wire Tongs, lever lift, link stick, and rope blocks used on heavy conductors.

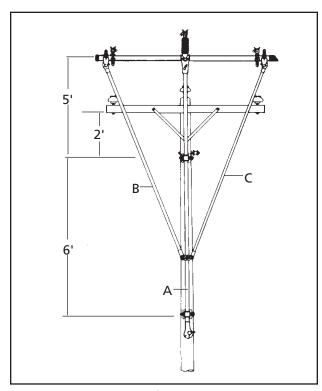


Figure 4— Three Phase Lift Set where all three wires are lifted at once.

WORKING LOADS FOR CHANCE WIRE TONGS

						Maximum	Maxi	mum Wire	e Size and	Span
	Eiguro	Pole	Diameter (in	ches)		Working Load	(In I	Feet)	(Level C	Ground)
	Figure No.		Epoxiglas		Туре	(lb. per	A	CSR	Cop	per
	140.	Α	В	С	Support	Conductor)	Size	Span	Size	
Γ	3	2 x 12	1 ¹ / ₂			350	4/0	850	4/0	
		2 ¹ / ₂ x 12	1 ¹ / ₂		Lever Lift	1000	397.5	1150	250	
	4	2 ¹ / ₂ x 12	2 x 8	2 x 8	Saddles	225+*	4/0	550	4/0	

^{*}With max. lift of 5' above saddle, max. unbalance of 225 lb. on one side.

NOTE:

(1) Supports

- Maximum recommended load for Saddles with extensions is 800 lbs.
- Lever Lift will exceed Wire Tong strength when load is properly applied in line with pole

(2) Working Loads

- Any elevated structure requires an analysis in determining the load
- When calculations are impractical or unnecessary, and a pole is slightly higher than neighboring poles, consider total weight of span on each side as maximum working load
- Does not apply to hilltop structures where special analysis must be made to determine load

 When working load is greater than that given in the table for a particular Wire Tong, it will be necessary to use double Wire Tongs with double-type lever lift, or use larger Wire Tong

(3) Epoxiglas® Working Loads

- Maximum working loads are based on a pole deflection of approximately one inch when used in manner shown
- Cantilever values, with a safety factor of more than two, are: 1-1/2" – 375 ft.-lb.; 2" – 900 ft.-lb.; 2-1/2" – 1500 ft.-lb.; and 3" – 2500 ft.-lb.
- Tensile strength values, with a safety factor more than two, are: 1-1/2" – 1500 lb.; 2" – 2000 lb.; 2-1/2" – 2500 lb.; and 3" – 3000 lb.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Marrch 2013 Page 2203

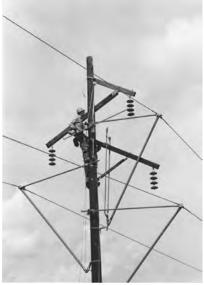


Wire Tongs

Features & Applications

- Tested per OSHA & ASTM F711
- Designed for moving and holding conductors clear of working area
- Also used for flat crossarm and/or ridge pin-construction, on horizontal post insulator structures, and all types of suspension insulator lines
- Also used as auxiliary arm braces, and in EHV construction for brace pole or ladder positioning guides
- Whole family of clamps, attachments, saddles and lever lifts allows wire tongs to be adapted to mechanical requirements of various maintenance jobs
- Made with Epoxiglas® poles
- Castings made with heat-treated aluminum alloy, separated by bronze wear rings
- Wide-range jaws on head can be clamped tightly on conductor by turning stick from a position beyond minimum work clearances.
- Large head available on two tong sizes for extremely large conductors
- For working load, size, and application information, see pages 2202 and 2203





Catalog	Pole Dia.	Overall	Wire	Size	Approx.	
No.	& Length	Length	Min.	Max.	Weight	
H46458	1¹/₂ x 8'	8' 71/2"	0.16"	2.25"	7 lb./ 3.2 kg.	
H464510	1½ x 10'	10' 71/2"	0.16"	2.25"	8 lb./ 3.6 kg.	
H46468	2" x 8'	8' 8"	0.16"	2.25"	11 lb./ 5.0 kg.	
H464610	2" x 10'	10' 8"	0.16"	2.25"	12 lb./ 5.4 kg.	
H464612	2" x 12'	12' 8"	0.16"	2.25"	14 lb./ 6.3 kg.	
H464710	2 ¹ / ₂ " x 10'	10' 8"	0.16"	2.25"	16 ¹ / ₂ lb./ 7.4 kg.	
H464712	21/2" x 12'	12' 8"	0.16"	2.25"	18 ¹ / ₂ lb./ 8.3 kg.	
H464714	21/2" x 14'	14' 8"	0.16"	2.25"	20 ¹ / ₂ lb./ 9.2 kg.	
H464716	Spliced 21/2" x 16'	17' 2"	0.16"	2.25"	28 lb./12.6 kg.	
C4000171	3" x 12'	12' 10"	0.16"	2.25"	30 lb./13.5 kg.	
C4000172	3" x 14'	14' 10"	0.16"	2.25"	35 lb./15.9 kg.	
H467712	2 ¹ / ₂ " x 12'	12' 10"	1.50"	2.88"	23 lb./10.4 kg.	
H467714	2 ¹ / ₂ " x 14'	14' 10"	1.50"	2.88"	25 lb./11.3 kg.	



H46458

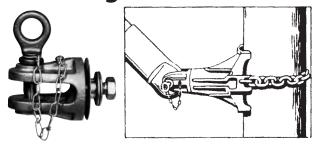
HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2204 March 2013



Wire-Tong Saddle Clevis



Features & Applications

- Used to attach butt ring of a wire tong, as a crossarm brace, to a wire tong saddle
- Allows wire tong to pivot and engage wire tong arm stirrup
- Wire tong can be attached after arm has been secured to pole

Cat. No.	Description	Weight
M474014	Wire Tong Saddle Clevis	14 oz./ 3 kg.

WIRE TONG BAND

Features & Applications

- Two screws clamp band to wire tong
- Each screw is threaded into half of the band and engages a slot in opposite half
- This permits halves of the band to be separated by a sliding action without removing screws
- Hinge ring slides on band, allowing rotation of wire tong when tong is supported by rope blocks
- For positive insulation between rope blocks and live conductors, install band at least the minimum distance for voltage class
- See table on page 2202

Cat. No.	For Pole Dia.	Weight
M17293	11/2"	1 ¹ / ₂ lb./0.7 kg.
M1729	2"	1⁵/8 lb./0.7 kg.
M17291	21/2"	1 ³ / ₄ lb./0.8 kg.
M17292	3"	1 ⁷ / ₈ lb./0.8 kg.

WIRE TONG BLOCKS CLAMP Features & Applications

- Use where pull is in line with pole
- Secured to wire tong under tension
- Rope blocks are connected to clamp ring
- This application places pull force in line with top wire tong
- Assists in pulling heavy conductors back into position

	· · · · · · · · · · · · · · · · · · ·	
Cat. No.	For Pole Dia.	Weight
M4743	11/2"	25/8 lb./1.2 kg.

WIRE TONG SWIVEL

Features & Applications

- Designed to prevent kinking of conductor
- By attaching swivel to left tong and the holding tong hooked into the clevis attachment, there is only one tong hooked on the conductor
- Clevis pivots to allow tongs to assume correct positions
- This avoids the kinking caused by two wire tongs

nookea side-by	r-side on a conductor	
Cat. No.	For Pole Dia.	Weight
M4745	2"	11/2 lb./.07 kg.
M47451	21/2"	1 ³ / ₄ lb./.08 kg.

Wire-Tong Pole Clevis

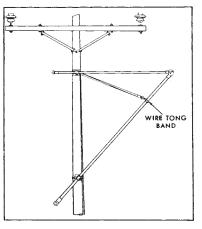




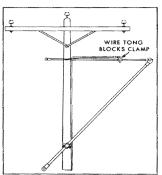
Features & Applications

- Clamps around vertical wire tong supporting an auxiliary crossarm
- Engages butt rings of two wire tongs used as side braces

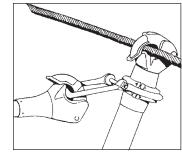
Cat. No.	Size	Weight
M17285	2 ¹ / ₂ "	2 ¹ / ₂ lb./1.1 kg.
C4000345	3"	3³/₄ lb./1.7 kg.















Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Marrch 2013 Page 2205



Wire-Tong Saddles







M474010W

M474018W

M47405W









M47412 Pole Clamp

C4000073 Extension

Features & Applications

- Made of strong, yet lightweight aluminum alloy for handing ease
- Will support a maximum of 1000 lbs. (450 kg) without extension
- Has a tested working load rating of 800 lbs. (360 kg.) with extension
- Clamp is set far enough away from base to provide ample clearance for most jobs
- Can be bolted to the saddle when additional clearance is required
- Heat-treated aluminum-alloy extension is 4 inches (100 mm) long
- Wheel Type fasteners are easy to apply, hold saddle firmly in place and prevent riding down
- Wheel Tightener can fit into close places, including between crossarm braces

Catalog No.	Description	Approx. Weight
-		
M47403W	Saddle and Tightener and 1½" (37.5mm) clamp	10 lb. 1 oz./4.56 kg.
M47404W	Saddle and Tightener and 2" (50mm) clamp	10 lb. 5 oz./4.68 kg.
M47405W	Saddle and Tightener and 21/2" (62.5mm) clamp	10 lb. 9 oz./4.80 kg.
M47409W	Saddle and Tightener and 3" (75mm) clamp	10 lb. 12 oz./4.90 kg.
M474010W	Saddle and Tightener less clamp	8 lb. /3.60 kg.
M474015W	Saddle Wheel Tightener and Clevis	6 lb. 11 oz./3.03 kg.
M474016W	Saddle, Tightener, 1 ¹ / ₂ " (37.5mm) clamp & extension	11 lb. 1 oz./5.01 kg.
M474017W	Saddle, Tightener, 2" (50mm) clamp & extension	11 lb. 5 oz./5.13 kg.
M474018W	Saddle, Tightener, 21/2" (62.5mm) clamp & extension	11 lb. 9 oz./5.24 kg.
M474019W	Saddle, Tightener, 3" (75mm) clamp & extension	11 lb. 12 oz./5.33 kg.
M474020W	Saddle, Tightener, extension less clamp	9 lb. /4.08 kg.
C4000073	Wire Tong Saddle Extension	1 lb. /0.45 kg.
M47411	1½" (37.5mm) pole clamp only	2 lb. 1 oz./0.93 kg.
M47412	2" (50mm) pole clamp only	2 lb. 5 oz./1.04 kg.
M47413	2 ¹ / ₂ " (62.5mm) pole clamp only	2 lb. 9 oz./1.20 kg.
M47415	3" (75mm) pole clamp only	2 lb. 12 oz./1.25 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2206 March 2013

CHAIN TIGHTENERS & EXTENSIONS

Features & Applications

- For building wire tong holding assemblies, or for replacement
- Wheel Type fasteners are easy to apply, hold saddle firmly in place and prevent riding
- Wheel tightener has spring take-up
- Maximum workload is 2,500 lbs.
- Extension Chain increases length of Chain Tightener
- This allows Chain Tightener to be used on large-diameter poles

Catalog No.	Description	Weight
M1848W	Wheel Tightener Assembly (36" Chain)	5 ³ / ₄ lb./2.6 kg.
M1847	18" Extension Chain	15/8 lb./ .7 kg.
M18473	36" Extension Chain	3 lb./1.4 kg.
M18474	48" Extension Chain	4 lb./1.9 kg.
M18476	72" Extension Chain	6 lb./2.8 kg.
070358P	Wheel Tightener Only	3 ¹ / ₂ lb./1.8 kg.

CROSSARM TYPE SADDLE

Features & Applications

- For underbuilt arms, when working space is limited or crowded with pole saddles
- Pivoting action of the saddle swivel and pole clamp attachment offers universal-joint action
- This allows movement of the wire tong in any direction and without binding
- Saddle shown does not include pole clamps, shown on page 2206
- · Maximum workload is 500 lbs.

Catalog No.	Fits Crossarms	Weight
M4744	3" x 4 ¹ / ₄ " to 4" x 8"	6 lb./2.7 kg.

TOWER TYPE SADDLE Features & Applications

- Used to support wire tongs or boom poles on towers
- Securely fastened to the angle-iron tower leg by four hooks tightened by wing nuts
- A clevis which bolts through the pivot lug permits rope blocks to be fastened
- This allows rope blocks to pivot with the wire tong or boom pole
- Saddle shown does not include pole clamps, shown on page 2206
- Maximum workload is 500 lbs.

Catalog No.	Description	Weight
M4742	Tower Saddle Less Clamp with regular hooks	11.25 lb./5.1 kg.
T4001413	Tower Saddle with small and large hooks	13.25 lb./6 kg.

WIRE TONG STIRRUP

Features & Applications

- Standard equipment with Chance Auxiliary Arms
- Stirrup may be ordered separately, for attaching Wire Tong Braces to Arm

Catalog No.	Description	Weight
C4000331	Wire Tong Stirrup	1 ¹ / ₄ lb/0.55 kg.

ROPE SNUBBING BRACKET

Features & Applications

• Easily prevents line snarls

Marrch 2013

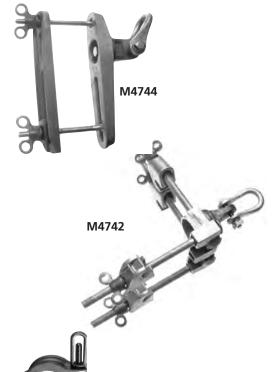
- Snubs all hand or light block lines to this bracket, mounted at the base of the pole to the six different rings
- Maximum workload is 1,000 lbs.

Catalog No.	Description	Weight
M1846W	Bracket with wheel tightener and 36" Chain	7 ¹ / ₂ lb/3.4 kg.





M1847



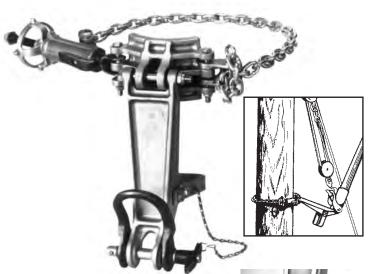


C4000331



CHANCE®

Lever-Lift Wire Tong Support

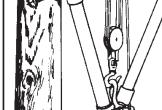


M4760W



M47602





C4001016

Aluminum Base Features & Applications

- For use where working space on pole is limited
- Also used on H-frame or heavy suspension insulator construction for raising or lowering conductors with wire tongs
- Lever Lift should be used in place of Wire Tong Saddles when loads exceed 500 lbs.
- Wire tong is attached to the Single Type by simply removing the cotter key
- Next, slide the shaft to the side, placing the butt ring of the tong into the fork
- Next, shoot the shaft through, and replace the cotter key
- For the Double Type, remove the wing nuts, slip butt rings of the two wire tongs on the shaft extensions and replace wing nuts
- High-strength aluminum alloy Lever Lifts are lightweight and easy to handle
- Provide a total conductor lift of 20¾ inches, and will support any size of wire tong
- When two Lever Lifts are required, one at each side of the pole, they can be attached at virtually the same height
- An arbor adapter is available to convert the Single Type Lever Lift to a Double Type
- Each Lever Lift is equipped with a clevis for attaching rope blocks
- The clevis, used at the end of the Lever Lift for attaching the lower rope blocks, will rotate on the same pin that holds the wire tong(s), permitting freedom of movement

		101	
		Working	
Catalog		Load	
No.	Description	Per Tong	Weight
M4760W	Single Type	1000 lb.	14 ¹ / ₂ lb./
	Lever Lift		6.5 kg.
M47601W	Double Type	750 lb.	15 ¹ / ₂ lb./
	Lever Lift		7.0 kg.
M47602	Arbor Adapter	_	1³/4 lb./
			.8 kg.

Epoxiglas® Base Features & Applications

- For same applications as aluminum-base units
- Normally used on higher transmission voltages where more lifting space is required
- Has a total conductor lift of 36"
- Arbor adapter (M47602) shown above can be used to convert an Epoxiglas lever lift into a double lift for two wire tongs
- Epoxiglas member is 36" long and provides the same working load per tong as the aluminum units

		Working Load	
Catalog No.	Description	per Tong	Weight
C4001016	Epoxiglas Lever Lift	1000 lb.	18 lb./8.1 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2208 March 2013

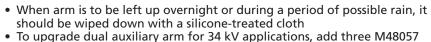
Dual Auxiliary Arm

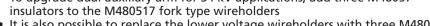




- Tested per OSHA & ASTM F711
- For use where a changeout of poles, crossarms or insulators is necessary
- Standard Chance Epoxiglas® tools are lightweight and easily rigged
- Can be used as a side arm on regular construction, or alley arm construction
- Movable wireholders can be spaced for minimum conductor travel from the crossarm to the temporary arm
- Arm is long enough for use as a lifting arm with the use of three standard Chance Wiretongs
- Additional wireholder insulation is required when arm is used on voltages above 15kV
- For energized conductor applications, it is recommended that insulators be added to the wireholders for added protection against tracking on the arm during rainy conditions

Catalog No.	Description	Weight
C4000075	Dual Auxiliary Arm, 10 ft., with	33 lb./
	Wheel Binder & 1" Fork Wireholder	14.9 kg.





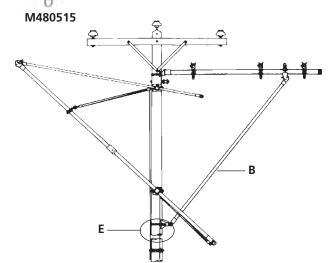
- It is also possible to replace the lower voltage wireholders with three M480515
- All of the auxiliary arm wireholders are the self-latching type
- When lowered into wireholder, conductor trips safety latch, locking conductor into wireholder

Latch must be swiveled with an insulated live line stick to release the conductor



Rigged as a Side Arm



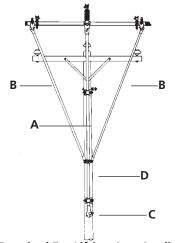


Accessory Tools Required For Side Arm Application

One **B** 2" x 8' Wire Tong H46468

One E Pole Type Saddle with Clevis M474015W

Plus necessary insulated hand held tools.



Accessory Tools Required For Lifting Arm Application

2¹/₂" x 16' Wire Tong H464716 One A

2" x 8' Wire Tong H46468 Two B

Two Pole Type Saddles with Extension M474018W and 21/2" Pole Clamps

2¹/₂" Pole Clevis M17285

Plus necessary insulated hand held tools.

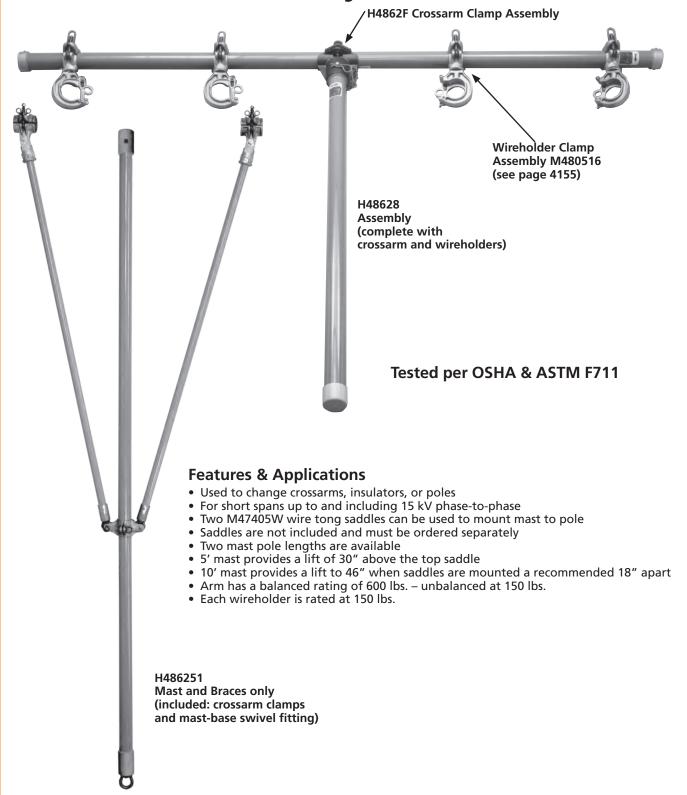


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Marrch 2013 Page 2209



Rubber-Glove Auxiliary Arm



Catalog		Wireholders		Mast Pole	Crossarm	
No.	Description	Qty.	Capacity	Size	Pole Size	Weight
H48628	Auxiliary Arm Assembly	4	21/2" Max.	2 ¹ / ₂ " x 4'11"	2 ¹ / ₂ " x 8'	42 lb./18.9 kg.
H486251	Mast & Braces	None	N/A	2 ¹ / ₂ " x 10'	None	37 lb./16.65 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2210 March 2013

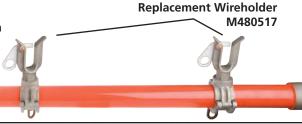
Extension Arm



Replacement Eye Bolt (see Table below)



Extension Arm H480072



Features & Applications

- Tested per OSHA & ASTM F711
- Designed for use on voltages up to and including 15 kV
- For use when reconductoring or insulator replacement is necessary
- Epoxiglas® Extension Arm can be used on voltages up to 34.5 kV providing the wireholders are fitted with M48057 insulators
- Suspended under the crossarm by brackets to enable to conductor to be removed from the original crossarm and placed in the wireholder mounted on the Arm



· Order insulators separately

Catalog	Epoxiglas Arm	No. of	Fits Maximum	Max. Vertical		Replacement
No.	Dia. & Length	Wireholders	Crossarm Size	Loading Per Wireholder	Weight	Eye Screw
H480060	2 ¹ / ₂ " x 5'	1	3 ³ / ₄ " x 4 ³ / ₄	150 lb.	11 ¹ / ₂ lb./6.2 kg.	640062P
H480072	21/2" x 6'	2	3 ³ / ₄ " x 4 ³ / ₄ "	150 lb.	13 lb./5.9 kg.	640062P
T4032417	21/2" x 6'	2	3 ³ / ₄ " x 4 ³ / ₄ " & 6" x 6"	150 lb.	15 lb./6.75 kg.	P4001444P
C4001310 (Heavy Duty)	3" x 6'	2	3 ³ / ₄ " x 4 ³ / ₄ " & 6" x 6"	300 lb.	24 lb./ 10.9 kg.	P4001444P

Temporary Conductor Support

Crossarm Mounting Features & Applications

- \bullet Clamps to the crossarm, adjusting to crossarms from 3-1/4" x 4" to 6" x 6"
- C-clamp is made of heat-treated aluminum
- Can be installed with a Grip-All clampstick
- Maximum workload is 150 lbs.

Catalog		
No.	Description	Weight
C4000517	Conductor Support, Crossarm	31/2 lb./1.6 kg.

Pole Mounting Features & Applications

- Epoxiglas® temporary conductor support is used to hold energized distribution conductors
- For use during replacement of poles or repair/replacement of pole top and stand-off insulators
- Features wheel tightener for poles up to 14" in diameter
- M480517 fork-type, 1-1/2" wireholder is standard
- Optional 2-1/2" diameter Epoxiglas® standoff, accommodates conductor sizes up to 1" in diameter
- Working load: 150 lb. per wireholder
- For 34.5 kV or energized conductor applications, M48057 insulators should be added to wireholders for added protection when rain is expected
- Rated 100 lbs., Side Load, Max.

Chain Binder	Catalog No.	Description	Weight
	*H4809W	Single Conductor Support	20 lb./ 9 kg.
M1848W	C4001509	Two Conductor Supports	22 lb./10 kg.

*200 lb. total load capacity for H4809W.









Tested per OSHA & ASTM F711

HUBBELL



Universal Extension Arms

- Fit composite or wood crossarms up to 3\(^4\)" x 4\(^4\)"
- Cushioned clamp and hanger loop to protect composite arms
- Grippers on clamp can be removed for wood crossarms
- Design allows removal of components for reconditioning pole
- Designed for use with rubber gloves or hot sticks



CROSSARM LOOP
(PLASTISOL COATED)
& POLE CLAMP

WIREHOLDER

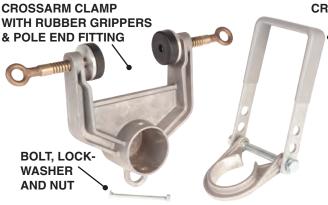
6-ft. Universal Extension Arm PSC4004101



Catalog No.	Epoxiglas® Arm Dia & Length	Number of Wireholders	Fits Maximum Crossarm Size	Max. Vertical Loading per Wirehoilder
PSC4004101	2½" x 6'	2	3¾" x 4¾"	150 lb.
PSC4004102	2½" x 5'	1	3¾" x 4¾"	150 lb.

Universal Extension Arm Retrofit Kit

 Allows conversion of wood-only Extension Arms to Universal Extension Arms



Universal Extension Arm Retrofit Kit PSC4004103

CROSSARM LOOP

WITH PLASTISOL COATING & POLE CLAMP



Conversion permits easy removal of the Crossarm Clamp for periodic reconditioning of the pole.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2212 March 2013



Temporary Conductor Supports

D-Buckle Strap On Ratchet Pole Binder

• Single- & Double-Wireholder Models





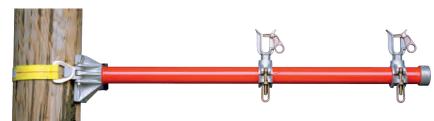


Strap Binder Kit T4002007



- New D-shaped buckle on the strap-free end adds speed and convenience
- Hanging a temporary conductor support involves just hooking buckle in clasp on bracket and cinching the strap with ratchet handle
- With strap-type ratchet-action mount rather than a chain binder, these supports are same as on page 2211
- Strap and ratchet assembly may be ordered alone for retrofit, below
- Polyester strap offers advantage of less stretch than nylon for this application
- With 10,000-lb. rated tensile strength, 2"-wide strap comes in 44" length to fit most structures
- Wide handle opening on rapid-action ratchet permits easy operation
- Works well even with rubber gloves and leather protectors
- Epoxiglas® temporary conductor support is used to hold energized distribution conductors
- For use during replacement of poles or repair/ replacement of pole top and stand-off insulators
- Fork-type wireholder accepts up to 1"-diameter conductor
- Working load: 150 lb. per wireholder on T4001939 only
- For systems higher than 15 kV or energized conductor applications, M48057 insulators should be added to wireholders for added protection when rain is expected (See page 2209)





Strap Binder Kit complete with D-buckle and Ratchet Mechanism

Catalog No.	Description	Weight
T4002007	D-Buckle Strap Binder only	4 ¹ / ₂ lb./2 kg.

Strap-Type Temporary Conductor Supports Epoxiglas® pole: 2½" diameter

Catalog No.	Description	Weight
*T4001940	30" - One Conductor Support	14 lb./6.3 kg.
T4001939	48" - Two Conductor Supports	18 lb./8.1 kg.

^{*200} lb. total load capacity for T4001940.

Tested per OSHA & ASTM F711



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Marrch 2013 Page 2213



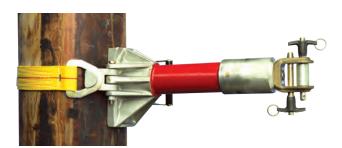
Corner Restraint Bracket Tool

Features & Applications

- For insulator changes on running corners
- Helps isolate pole and hoist during maintenance
- D-buckle on strap quickly mounts ratchet pole binder
- Adds efficiency to energized changeout of insulators on distribution running-corner poles
- Works with strap hoist to help control each phase conductor while insulators are changed
- Helps restrain conductor while repairs are made
- Also acts as load restraint for hoist to pull conductor back in for reconnection to insulator string
- Dual-pin/single-roller set-up lets you rig the bracket for mounting on either side of pole
- So strap always rides on the roller, place roller on appropriate push-button pin
- New D-shaped buckle on the strap-free end adds speed and convenience
- Hanging a temporary conductor support involves just hooking buckle in clasp on bracket and cinching the strap with ratchet handle
- Bracket rigged on guy side of pole: Used where the conductor is pulled in only a short distance toward the pole
- Bracket rigged on conductor side of pole: Used where the conductor must be pulled in a considerable distance toward the pole

For Hot-line Procedures

- For maintenance by hotsticks or rubber-glove techniques, Corner Restraint Bracket assists in isolating strap hoist from pole, a potential ground
- Also avoids cutting a short section from a poleguard cover-up or using (and possibly damaging) a rubber blanket as a pad between strap and pole
- To insulate the strap hoist, a 12"-long link stick connects the hoist's hooks to hot-line grips on the conductor
- Poleguards and rubber cover-up are required to isolate the phase being worked from ground and other phase potentials



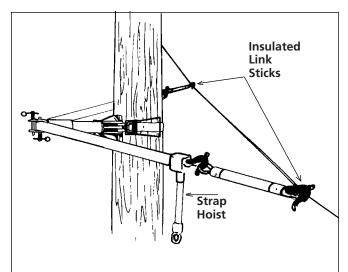


Maximum Load Rating: 2,000 lb. (900 kg.)

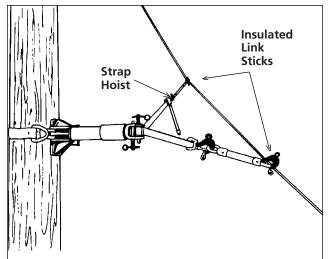
Epoxiglas® member: 21/2" diameter, 6" clear length

Ordering Information

Catalog No.	Description	Weight
T4002272	Corner Restraint Bracket	13 ³ / ₄ lb. / 6.2 kg.



Bracket rigged on guy side of pole: Used where the conductor is pulled in only a short distance toward the pole.



Bracket rigged on conductor side of pole: Used where the conductor must be pulled in a considerable distance toward the pole.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2214 March 2013



STRAIN LINK STICK



Features & Applications

- Tested per OSHA & ASTM F711
- Used as insulation between rope blocks and a hot line wire grip
- For deadend structures and running corners
- Attached to conductor close to wire tong to support conductor loads
- Supported from above by rope blocks, which are operated in unison with rope blocks attached to the wire tong
- Also used to support middle conductor on H-frame structures during insulator or crossarm changes
- Heat-treated aluminum alloy hooks and ferrules for best high-strength/lightweight ratio
- High-quality-steel butt rings for attaching rope blocks or handlines
- Butt swivel spins freely on ball-thrust bearing
- Jaw edges are rounded to prevent scarring of conductors

)
	ь л .	

Catalog No. H47152 C4000814 C4000815 C4000816 C4000817 C4000818 H47161 H47162 H47163 H47164 H47165 H47166	Overall Length 4'9" 7'3" 9'3" 11'3" 15'3" 3'3" 4'9" 6'9" 8'9" 10'9"	Pole Dia. and Length 11½" x 4' 11½" x 6' 11½" x 10' 11¼" x 12' 11½" x 14' 11½" x 2' 11½" x 4' 11½" x 6' 11½" x 8' 11½" x 8' 11½" x 10' 11½" x 10'		W ning Max75 .75 .75 .75 .75 .106 .106 .106 .106 .106 .106 .106 .106	Max. Work Load, Ib. 3500 3500 3500 6500 6500 6500 6500 6500	Approx. Wt., lb. 3 ³ / ₄ /1.7 kg. 5 ¹ / ₄ /2.4 kg. 6 /2.7 kg. 6 ³ / ₄ /3.1 kg. 7 ¹ / ₂ /3.4 kg. 8 ¹ / ₄ /3.7 kg. 4 ³ / ₄ /2.2 kg. 5 ³ / ₄ /2.6 kg. 6 ³ / ₄ /3.1 kg. 7 ³ / ₄ /3.6 kg. 8 ³ / ₄ /4.0 kg. 9 ³ / ₄ /4.4 kg.
					_	8 ³ / ₄ /4.0 kg. 9 ³ / ₄ /4.4 kg.
H4717 H47171	5'0" 7'2"	1½" x 4' 1½" x 6'	.72 .72	1.50 1.50	6500 6500	9 ⁷ / ₈ /4.5 kg. 11 ⁷ / ₈ /5.4 kg.
H4718 H47181	5'2" 7'2"	1 ¹ / ₂ " x 4'	1.00	2.50 2.50	6500	11¹/ ₈ /5.1 kg. 13 /5.9 kg.
H47182	9'2"	11/2" x 8'	1.00	2.50	6500	15 /6.8 kg.
H47183 H47184	11'2" 13'2"	1 ¹ / ₂ " x 10' 1 ¹ / ₂ " x 12'	1.00	2.50	6500 6500	17 /7.7 kg. 19 /8.6 kg.

SPIRAL LINK STICK



Features & Applications

- Tested per OSHA & ASTM F711
- Replaces strain link stick when lineman cannot safely install one by hand
- A lifting eye on the head ferrule enables the lineman to guide the Spiral Link Stick to the conductor with a hotstick
- 1-1/4" Epoxiglas® pole
- Heat-treated aluminum alloy ferrule castings
- · Galvanized-steel spiral hook and butt ring

				Max.	
		Pole Dia.	Maximum	Work	Approx.
Catalog	Overall	and	Conductor	Load,	Wt.,
No	Length	Lanath	Sizo	lh.	lh

11/4" x 15.5" 1510.5 kcmil ACSR 3500 31/2/1.6 kg.

1510.5 kcmil ACSR 3500

ROLLER LINK STICK



Features & Applications

- Tested per OSHA & ASTM F711
- For spreading and holding conductors at midspan when relocating poles
- Applied to conductor at pole and pulled to position by hand line on butt ring
- Handline should be secured by a temporarily installed screw anchor or other fixed object
- Also used for measuring conductor-to-ground clearance by attaching measuring tape or length of rope to butt ring



• 1-1/4" pole

H4722

C4000812

31"

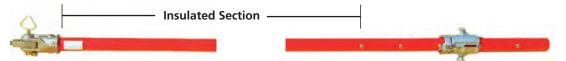
 Rotating the pole closes the hook, leaving head free to roll along the conductor

				Max.	
		Pole Dia.	Maximum	Work	Approx.
Catalog	Overall	and	Conductor	Load,	Wt.,
No.	Length	Length	Size	lb.	lb.
H47144	58"	11/4" x 4'	605 kcmil ACSR	1000	3³/ ₄ /1.7 kg.
H47146	82"	1 ¹ / ₄ " x 6'	605 kcmil ACSR	1000	4 ¹ / ₄ /1.9 kg.





ADJUSTABLE STRAIN POLES



Clevis furnished with high-strength steel Through Pin E4011510 and Klik Pin P059738P. 2-in. Pole Clamp E4010138 included with each Strain Pole listed below.



12" Strain Jack E4011998 included with each Strain Pole listed below.

Features & Applications

- Tested per OSHA & ASTM F711
- For many transmission and EHV maintenance applications
- Help support conductors while insulators are removed and replaced
- Used with yoke plates and hook assemblies at the conductor
- Also used for structure ends of suspension, V-string or deadend insulator strings
- 5 stainless-steel crosspins are located at 6" intervals on the 2"-diameter Epoxiglas® poles to support hot-end trunnions or hooks
- Engaging deadend and suspension yokes at the hot

- end also require the adjustable, heat-treated aluminum pole clamp
- Pole clamp can be unlocked and positioned by hotsticks
- On cold end, a high-strength steel strain-jack with bronze tongue provides take-up with a ratchet wrench (see page 2257) and trunnions (page 2255)) (Wrench and trunnions must be ordered as separate items)
- Standard strain jack included with each strain pole provides 12" of adjustment
- Longer strain jacks (for 24" or 36" of take-up) and extra pole clamps also may be ordered as options below

Ordering Information

Adjustable Strain Poles

- 7,500-lb. maximum load rating (2"-diameter Epoxiglas pole)
- 2-ft. adjustment by Pole Clamp (furnished) in 6" increments on five stainless-steel pins
- 12"-long Strain Jack E4011998 furnished as standard
- Optional 24" & 36" strain jacks and extra pole clamps available below

Catalog No.	Description	Maximum Voltage Use	Insulated Section	Overall Length	Weight
C4012144	6-ft. Strain Pole	72.5 kV	36 in. (91.44 cm)	7 ft8 in.	18 lb. / 8.1 kg.
C4012145	7-ft. Strain Pole	169 kV	48 in. (121.92 cm)	8 ft8 in.	18 ³ / ₄ lb. / 8.4 kg.
C4012146	8-ft. Strain Pole	242 kV	63 in. (160.02 cm)	9 ft11 in.	19¹/₂ lb. / 8.8 kg.
C4012147	10-ft. Strain Pole	302 kV	84 in. (213.36 cm)	11 ft8 in.	20 ⁷ / ₈ lb. / 9.4 kg.
C4012215	12-ft. Strain Pole	362 kV	102 in. (259.8 cm)	13 ft2 in.	22 ¹ / ₄ lb. / 10 kg.
C4012148	14-ft. Strain Pole	552 kV	135 in. (342.9 cm)	15 ft11 in.	23 ³ / ₄ lb. / 10.7 kg.
C4012149	18-ft. Strain Pole	765 kV	180 in. (457.2 cm)	19 ft8 in.	26 ¹ / ₂ lb. / 11.9 kg.

Accessories

November 2013

E4010138P	2" Adjustable Pole Clamp	2 lb. / 0.9 kg.
E4011998P	12"-Acme-thread Strain Jack	3 lb. / 1.4 kg.
V4010157P	24"-Acme-thread Strain Jack	4 lb. / 1.8 kg.
V4010158	36"-Acme-thread Strain Jack	6 lb. / 2.7 kg.
E4011510P	Steel Through Pin	³ / ₈ lb. / 0.17 kg.
059738P	Klik Pin	¹ / ₁₆ lb. / 0.03 kg.



CHANCE

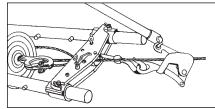
Heavy Duty Two-Pole Strain Carriers (15,000 lb.)

See page 2257 for Ratchet Wrench M19483.

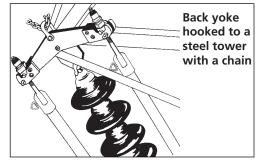


Features & Applications

- Tested per OSHA & ASTM F711
- Relieve strain from an insulator string to permit removal from energized lines
- Normally used on a single string of insulators
- Also used for multiple strings where conductor-end hardware permits attachment



Front yoke hooked into a wire-grip clamp



- Available here as complete assemblies separate components may also be ordered
- For adjustable strain poles, see page 2253
- For yokes, sockets and trunnions, see page 2255
- Yokes are fabricated from high-strength aluminum plate
- Feature a steel chain assembly for anchoring the back plate to the structure
- Conductor-end yoke includes a hook and a machined socket (C4011894)

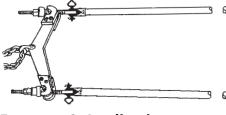
Maximum load rating for each of the strain-carrier assemblies listed below is 15,000 lb. per insulator string.

Catalog Nomina		Distance Be	etween Yokes	Weight,
Number	Pole Length	Minimum	Maximum	each assembly
C4012174	6 ft.	49 "	81"	81 lb. / 36.45 kg.
C4012175	7 ft.	59 "	93"	83 lb. / 37.35 kg.
C4012176	8 ft.	74 "	108"	85 lb. / 38.25 kg.
C4012177	10 ft.	95 "	129"	89 lb. / 40.05 kg.
C4012216	12 ft.	113 "	147"	95 lb. / 42.27 kg.
C4012178	14 ft.	146"	180"	97 lb. / 43.65 kg.
C4012179	18ft.	191"	225"	105 lb. / 47.25 kg.

Common Features For All Units Listed

- Two 2"-dia. Epoxiglas poles
- Yokes are 26" wide on pole centers
- 2" adjustment in 6" increments on five stainless-steel pins per pole
- 12"-long Strain Jacks

Standard Duty Strain Carriers (6,500 lb.)



See page 2257 for Ratchet Wrench M19483.

Tested per OSHA & ASTM F711

Features & Applications

- Same basic use as the two-pole strain carrier
- Relieves strain while removing a single string of insulators
- Distribution strain carrier has a compression deadend yoke at the hot end
- Insulator-conductor hardware features a compression
- lever-type action, gripping tighter as the load increases
- Various shoes furnished with the kit fit conductors from 0.292" through 0.806" (No. 2 through 397.5 ACSR)
- Maximum load rating for each distribution straincarrier assembly listed below is 6,500 lb. per insulator string
- Two 11/4"-diameter Epoxiglas poles Yokes are 21" wide on pole centers
- 2-ft. adjustment in 6" increments on five stainless-steel pins per pole 12"-long Strain Jacks

Catalog	Nominal Distance Between Yokes			Weight,
Number Pole Length		Minimum	Maximum	each assembly
C4010411	6 ft.	47 ¹ / ₂ "	81"	82 lb. / 36.9 kg.
C4010410	8 ft.	71¹/₂"	105"	92 lb. / 41.4 kg.





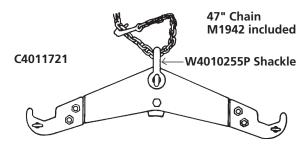
Two-Pole Strain Carrier Accessories Two-Pole Yokes

- Can be ordered separately to make two pole strain carriers shown on Page 2254
- Yokes are fabricated of high strength (3/4"- and 1"-thick) aluminum plate
- Yokes have 26" width between center of adjustable strain poles used with them
- Maximum load ratings are 15,000 lbs. per insulator string

Catalog No.	Description	Weight
C4011720	Conductor End Yoke Assembly	25 lb./11.3 kg.
C4011721	Structure End Yoke Assembly	20 lb./ 9.0 kg.

C4011720

Includes hook and C4011894 Socket



Includes steel loading chain and attachment hardware.

C4010095

Deadend Compression Yoke Assembly

- Used with Two-Pole Strain Carriers, these units grip compression sleeves over the compressed area, requiring no shoulder or adapter to pull against
- Heat-treated aluminum castings
- Rated at 11,000 lbs. maximum load when used with 2" adjustable strain poles
- Designed specifically for use on extension links
- Swing up gate exposes the shoe area of the assembly to the load and must be closed before taking up tension

Catalog No	. Description	Weight
C4010095	Compression Yoke Assembly Complete with a Hot Line Extension Link for ³ / ₄ " and 1" dia. shank & 4 sets of shoes for conductor from 477to 1351 MCM ACSR	44 lb./19.8 kg.

Take-Up Trunnions

- For replacement or conversion
- Bronze-alloy and ball-thrust bearing construction for use on adjustable strain poles
- Equal the capacity of all Chance yokes and provide maximum efficiency for the lineman
- Require M19483 Ratchet

Catalog No.	Description	Weight
E4012066P	One Large Trunnion, replaces 70356	31/2 lb./1.6 kg.
E4012068P	One Small Trunnion, replaces E4010486	2 lb./0.9 kg.

5" 25/8" E4012066P (1 only) E4012068P (1 only)

Trunnion Gauge

Catalog No.	Description	Weight
T4012265	Trunnion Gauge for 3/4" Acme threads	¹/₂ lb./0.25 kg.

Deadend Sockets

- Furnished with the Two-Pole Strain Carrier
- Use following catalog number for ordering replacement

Max. Load Rating: 15,000 lb.

		3			
	Bolted	Conductor Ra	nge of Fittings	Compression	
	Strain	Maximum	Minimum	Deadend	
	Clamp	Copper or	Copper or	Body	Approx.
Catalog No.	Max.	ACSR	ACSR	Maximum	Weight
C4011894	For Ex	Extension Links with 7/8" Shank and 11/2" Collar.			



T4012265 Trunnion Gauge



Deadend Socket

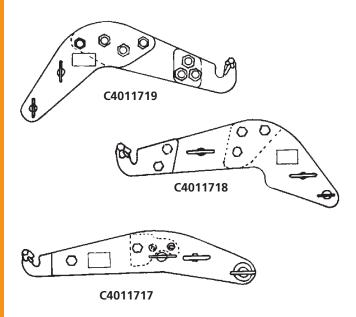


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2255



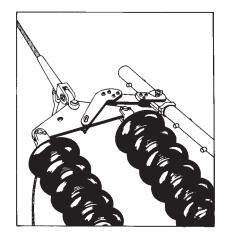
Single-Pole Strain Carrier Yokes



Features & Applications

- Can be used with adjustable strain poles (see page 2253) to remove the strain from one string of multiple strings of deadend insulators
- Should be purchased in pairs to fit specific yoke plate construction
- Same yoke assemblies can be used on both the hot and cold end of the insulator string as they hook into the yoke plate hardware
- All of these yokes are rated at 15,000 lbs. maximum load per insulator string

Catalog		
No.	Fits Yoke Plates	Weight
C4011719	Flat Plates up to 3/4" thick	25 lb./11.3 kg.
C4011718	Flat Plates up to 1" thick	25 lb./11.3 kg.
C4011717	Rectangular or Triangular plates up to 3/4" thick	25 lb./11.3 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2256 November 2013

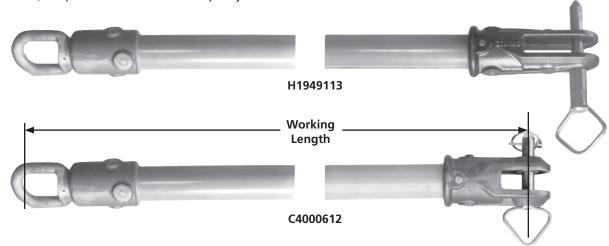


Strain Poles For Bundle Conductor Yoke Plates

Features & Applications

- Tested per OSHA & ASTM F711
- Accommodate a wide range of yoke plate designs and hole spacings
- Both Strain Poles, of 2"-dia. Epoxiglas® construction, offer 12,000-pounds maximum load capacity with a 1"

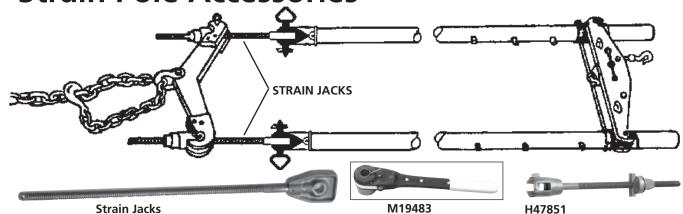
wide clevis for aluminum conductor yoke plates
• Commonly used in deadend rigging, for "V" strings and restrained angles, poles offer two clevis lengths and overall lengths



Catalog No.	Description	Working Length*	Max. Load	Weight
H1949113	Butt Swivel, Clevis 3.35" x 1"	113"	12,000 lb.	17 lb./7.7 kg.
C4000612	Butt Swivel, Clevis 1.56" x 1"	113"	12,000 lb.	14 lb./6.3 kg.
C4000613	Butt Swivel, Clevis 1.56" x 1"	134"	12,000 lb.	15 lb./6.8 kg.
PSC4002915	Clevis, Clevis 1.56" x 1"	113"	12,000 lb.	14 lb./6.3 kg.
PSC4002916	Clevis, Clevis 1.56" x 1"	134"	12,000 lb.	15 lb./6.8 kg.

^{*} Distance from centerline of pin to inside end of butt ring.

Strain Pole Accessories



	11998, V4010157 & V4010158	Ratchet Wrench	Clevis, Ratchet, Screw
Catalog No.	Description		Weight
M19483	Ratchet Wrench		2.2 lb./1 kg.
E4011998P	Strain Jack (12" Long) Tongue 1	Гуре	3 lb./1.4 kg.
V4010157	Strain Jack (24" Long) Tongue 1	Гуре	4 lb./1.8 kg.
V4010158	Strain Jack (36" Long) Tongue 1	Гуре	6 lb./2.8 kg.
H47851	Clevis Ratchet Screw 12"		5.5 lb./2.5 kg.
H47852	Strain Jack (18" Long) Clevis Ty	ре	8 lb./3.6 kg.
H47853	Strain Jack (24" Long) Clevis Ty	pe	10 lb./4.5 kg.
SPM29471	Acme Eyenut		1 lb./0.5 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



November 2013 Page 2257



Insulator Cradles

Tested per OSHA & ASTM F711

Features & Applications

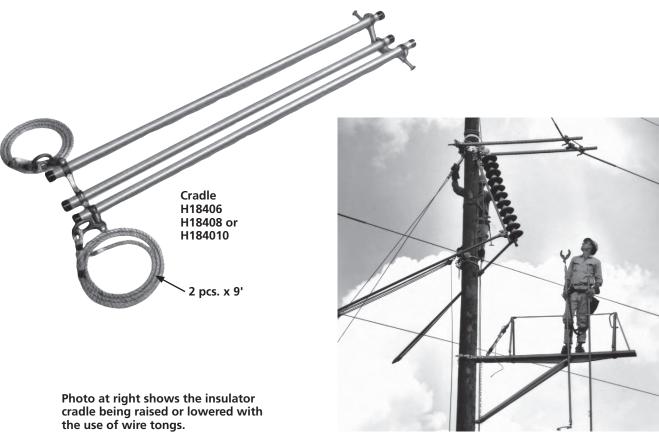
- Tested per OSHA & ASTM F711
- Three basic types of Insulator Cradles are available for various insulator changeout requirements:
 - Transmission Cradle is designed to be used on 69 kV to 115 kV deadend or suspension strings supported by a pair of wire tongs or link sticks
- o EHV Trough-design Cradle is designed to be used on 345 kV to 500 kV deadend or suspension strings and in combination with insulator cradle carriers for moving the insulators (See catalog page 2259)
- o EHV Side-Opening Cradle is designed to be used on only EHV deadend strings for removing only one string in a double, triple or quad deadend bundle (See catalog page 2260)

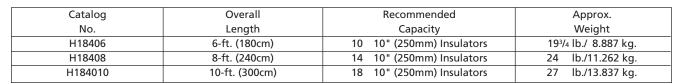
TRANSMISSION INSULATOR CRADLE

Features & Applications

- Used to make insulator changes by supporting the string while damaged insulators are replaced
- Also used to pivot the string so that it may be removed and lowered to the ground
- On deadends or running corners, cradles are used in conjunction with strain carriers
- In straight suspensions, they are used with various types of link sticks or adjustable strain pole assemblies
- Made with three 1-1/2" dia. Epoxiglas® poles
- Lightweight, easy to handle and adaptable to many applications

- Lugs, located at the forward end of the cradle, are used to support the insulator string with a pair of wire tongs or link sticks
- Back end of the cradle is supported by ropes tied at the structure
- Hinged in this manner, insulators may be lowered or raised to the best position for changing damaged insulators
- In some cases, cradle is supported in eyes located on the forward yoke of Two-Pole Strain Carriers
- This is performed when raising or lowering of the insulator string is unnecessary





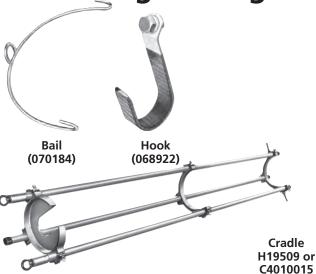


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2258 November 2013

CHANCE

EHV Trough-Design Insulator Cradle





- Tested per OSHA & ASTM F711
- For making insulator changes on lines energized up to and including 500 kV
- Also for lowering insulator strings on deadend and swinging-corner construction, and to raise the insulators on long suspension units
- Heat-treated aluminum castings, durable Epoxiglas® poles, and steel hardware Aluminum castings are lightweight for easy handling
- Deep "trough" design holds insulator string securely
- Also prevents accidental dropping of the string as the slotted insulator-retaining plate secures the top insulator of the string
- Raise or lower for easier insulator changes with a bail attached to a link stick
- Hooks are furnished for installing and removing deadend tool from insulator yokes

		Max.	
		10"	
Catalog		Insulator	
No.	Description	Capacity	Weight
H19509	9' Insulator Cradle	19	23 lb./10.45 kg.
C4010015	11'4" Insulator Cradle	25	27 lb./12.27 kg.
H195090	Insulator Cradle Carrier	_	25 lb./11kg.



Features & Applications

- Utilizes a spiral link stick as support for the three hook and clamp assemblies
- Features a 2-1/2" Epoxiglas® insulated ridgepole
- Maximum load is 500 lbs.



Features & Applications

- · Eliminates electrostatic charge when working insulator strings
- Drains off charge from insulator string to tower leg
- 6' of No. 2 grounding cable is attached to the Static Ground tool
- Flat face clamp at one end of the grounding cable
- Adjustable jaws fit insulator caps from 2-1/2" to 6"
- Overall length with a 1-1/4" x 19" Epoxiglas® pole, is 30"
- To ground an insulator string, attach the flat face clamp to the tower leg and the Static Ground just under the first insulator cap
- For barehand work, attach the flat face clamp to the bucket shield system and the Static Ground under the second insulator from the LIVE end

Catalog No.	Description	Approx. Wt.
HG42301	W/Eyescrew Clamp No. G33633SJ	5 lb./2.3 kg.
C6000000	W/"T" Handle Clamp No. G33634SJ	5 lb./2.3 kg.



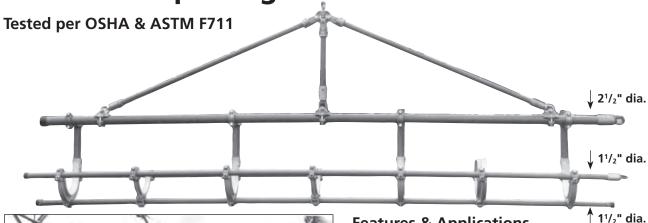


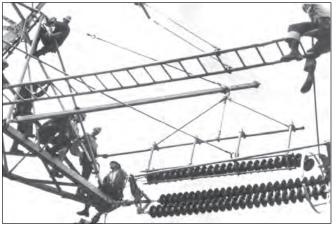
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

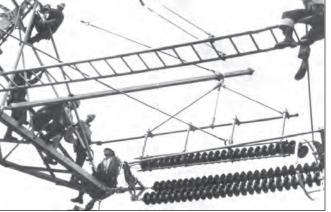
November 2013

CHANCE®

EHV Side-Opening Insulator Cradle



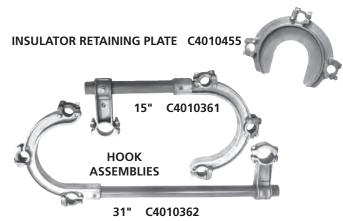




Features & Applications

- For selective removal of any one string in deadend
- bundles, double, triple or quad
- Eliminates the need for removing top strings in bundle access lower string
- Available in 9', 13' and 16' lengths
- Shipped complete with bridle for attaching to Swivel Boom, an Insulator Retaining Plate and either 15" or 31" Hook Assemblies
- 15" assembly for single or double deadends
- 31" Assembly for removal of bottom strings in 4-bundle deadends, and for double "V"-string assemblies
- 9' Cradle is rated 500 pounds maximum load
- 13' and 16' Cradles are rated at 1000 lbs. maximum
- Insulator Retaining Plate is dual purpose
- One side of Insulator Retaining Plate is adaptable to 11" insulator bells and the opposite side is adaptable to 12-3/4" insulator bells

	Catalog		
	No.	Description	Weight
ĺ	C4010358	9' Cradle, 15" Support Hooks	93 lb./41.9 kg.
	C4010359	9' Cradle, 31" Support Hooks	97½ lb./43.9 kg.
	C4010356	13' Cradle, 15" Support Hooks	119 lb./53.6 kg.
	C4010357	13' Cradle, 31" Support Hooks	123 ¹ / ₂ lb./55.6 kg.
	C4010354	16' Cradle, 15" Support Hooks	125 lb./56.7 kg.
	C4010355	16' Cradle, 31" Support Hooks	130 ¹ / ₂ lb./58.7 kg.
	C4010361	15" Support Hook, one only	10 lb./ 4.5 kg.
ĺ	C4010362	31" Support Hook, one only	11 ¹ / ₂ lb./ 5.2 kg.
	C4010455	Insulator Retaining Plate	7 ¹ / ₂ lb./ 3.4 kg.



J-HOOK ASSEMBLY

Features & Applications

- For removal of deadend insulator strings
- Plastisol-covered steel hook swivels on end of a 2" x 36" Epoxiglas® pole
- Has a 2-1/2" dia. pole clamp at the top end, allowing horizontal adjustment on an Epoxiglas ridgepole to fit varving lengths of insulator strings
- Useful in removing bottom string in a 3-bundle insulator string
- Rated working load: 250 lbs. per hook

Tested per OSHA & ASTM F711



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

J-HOOK ASSEMBLY

C4020790

Page 2260 November 2013

O



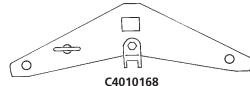
Suspension Insulator Tools

Features & Applications

- Optional tools for relieving the load on suspension insulator strings
- When same crews work on deadend and suspension structures, Adjustable Strain Poles on Page 2253 can be used as base tool for suspension insulator changeouts

SUSPENSION YOKES





- C4011722 yoke is used with the H2947 series adjustable strain poles on page 2253
- C4010168 yoke is used with clevis strain poles on page 2257
- Both yokes are fabricated from high strength aluminum plate
- Maximum load of 15,000 lbs. per insulator string
- Has two spring-loaded latches which engage and lock the pole clamp into position on the yoke, 26" apart center-to-center
- Provides adequate clearance for corona rings
- An eyebolt, which may be assembled on either side of the yoke, facilitates rigging
- Yoke is equipped with a swivel saddle designed to cope with the variables of suspension strings on running corners
- Saddle will rotate a full 360°
- Saddle will handle conductor yoke plates up to 1" in thickness

Catalog No.	Description	Weight
C4011722	Strain-Pole Suspension Yoke with 31/2" Swivel Saddle	26 lb./11.7 kg.
C4010168	Clevis Pole Suspension Yoke with 31/2" Swivel Saddle	23 lb./10.4 kg.

ADJUSTABLE HOOK ASSEMBLY



Features & Applications

- For use with adjustable strain poles shown on page 2253
- A direct method of relieving load on suspension string
- Conductor clamp has contoured seat with a trapping gripper and is operated by an eyescrew
- Conductor range is 1-1/8" to 2-1/2" dia.
- Can be positioned every 6" on the strain pole
- Hook is self-aligning within a range of 45° either side of vertical
- Maximum load is 3,500 lbs.

Catalog		
No.	Description	Weight
M47241	Adjustable Hook Assembly	6 lb./2.7 kg.

SUSPENSION LINK STICKS

For Adjustable Strain Pole (See Page 2253) or Clevis Pole (See Page 2257)

Features & Applications

- For use on conductors from 1-1/2" to 2-1/2" dia.
- Can be used with various types of takeup devices at the structure end
- Lip of the hook, actuated by an eye screw, swivels to accommodate various conductor sizes
- Maximum load is 6,500 lbs.

Tested per OSHA & ASTM F711

Catalog No.	Pole Dia. & Length	Weight
H472084	1¹/2" x 84"	14 lb./6.3 kg.
H472096	1½" x 96"	16 lb./7.2 kg.
H4720114	1 ¹ / ₂ " x 114"	18 lb./8.1 kg.



Suspension Link Stick



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2261

CHANCE° STRUCTURE YOKES

NOTE: Yokes shown here use Adjustable Strain Poles and small trunnions on page 2252 through 2253.

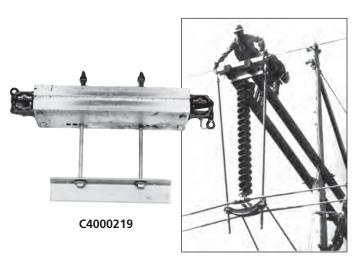


H478322

Steel Tower Yoke

- Fits over the tower arm, serving as a support for the Chance Strain Poles
- Relieve tension on suspension insulator string through the "hot end" yoke and conductor yoke plate
- Yoke legs can be adjusted to fit most tower structure configurations
- It is recommended that the design drawings of the tower arms be submitted to Hubbell Power Systems, Inc. with the Tower Yoke order for engineering evaluation
- Swivel trunnions are 26" center to center

Catalog No.	Description	Max. Load	Weight
H478322	Tower Arm Yoke	12,000 lb.	42 ¹ / ₂ lb./19.1 kg.



Wood or H-Frame Tower Yoke

- Similar to the Steel Tower Yoke in design and application
- Two clamp bolts which secure the yoke to the double plank crossarms may be adjusted to three center-tocenter positions (9", 11" and 13") to fit various arm sizes
- Vertical take-up on the crossarm is from 9" to 12"
- Swiveling trunnion brackets are located 26" centerto-center
- Longer braces are available on special orders

Catalog No.	Description	Max. Load	Weight
C4000219	H-Frame Crossarm Yoke	12,000 lb.	41 lb./18.5 kg.



Steel Arm Yoke

- For use on the arm of a steel pole
- Mounts over a ¾"-thick end plate as shown at left
- Swivel castings in end of yoke for proper alignment of Chance Strain Poles to conductor-end yoke
- Load rating is dependent upon the angle of end plate on arm
- 45° is maximum angle allowed with a maximum load of 9,000 lbs.
- In-line loading of yoke permits a maximum load of
- Bronze pins place the strain poles 21" apart, center-tocenter
- Lifting eye is cast into the top of the yoke to assist in rigging

Catalog No.	Description	Max. Load	Weight
C4000445	Steel Arm Yoke	15,000 lb.	14³/₄ lb./6.6 kg.



STEEL ARM BRACKET

The steel arm bracket is used with the C4000445 (steel arm yoke) where the steel arm is not equipped with an end plate. The bracket is made of heat treated aluminum and is complete with a wheel binder. The steel arm bracket serves the same purpose as an end plate to support the yoke assembly.

Catalog No.	Description	Max. Load	Weight
T4000838	Steel Arm Bracket	15,000 lb.	15 lb./6.8 kg.





TOWER GIN

• All-Purpose Handline Gin

Features & Applications

- 3' x 3" x 1/4" with an aluminum-welded end-plate securing bronze, free-swivel butt ring
- Snatch blocks hooked into butt ring keep handlines from dragging over tower structure, giving clearance to tools in transit
- Bronze mounting hooks are secured with bronze wing nuts on plated steel bolts
- Hook adjustment will fit tower angle from 1-3/4" x 1-3/4" up to 6" x 6"
- Maximum load for the gin is 500 lbs.

Catalog No.	Description	Length	Weight
M1979	Tower Handline Gin	21"	6³/4 lb./3 kg.



TROLLEY POLE SUSPENSION INSULATOR TOOL

Features & Applications

- Rolls a string of suspension insulators into the structure so that damaged units can be replaced
- Can be fastened, horizontally under the tower arm, using tower type wire tong saddles
- Two types of Trolley Wheel Units are available with single (H47234) or tandem (C4000152) wheels
 - o The tandem wheel units are used on extremely long strings of insulators for better weight distribution
 - o Both trolley wheel types will roll on either a 2-1/2" or 3" Epoxiglas® pole
- Slotted Suspension Insulator Attachment bolts to end of Trolley Pole and can be fitted under the top insulator
- Entire string can be lifted by a slight down pressure on structure end of Trolley Pole
- Insulators are returned to position on Trolley Pole after necessary changeouts

Suitable for 10¹/₂" disc insulators on one side and 10³/₄" disc insulators on the other



H47232







H47234

C4000152



TROLLEY POLE COMPONENTS PARTS

Catalog No.	Description	Weight
H47232	Fork Suspension Tool Attachment for 21/2" Pole	15 ¹ / ₂ lb./7.0 kg.
H4721112	Trolley Pole (2½" x 12')	18¹/₂ lb./8.3 kg.
H47234	Single Trolley Wheel with 21/2" Pole Clamp	6 lb./2.7 kg.
C4000152	Tandem Trolley Wheel with 21/2" Pole Clamp	13 lb./5.9 kg.





Hot Stick Tension Puller 34.5 kV Ø-Ø and 69 kV Ø-Ø



kV 69 kV
) lb. 4,000 lb.
o in. 66-76 in. n. 12 in.
n. 51 in. n. 39 in. n. 66 in.
i



Tension Puller Hook Adapter

- Hook Adapter is a field-replacement for adding catch and hotstick eye
- Adapter is interchangeable with hooks of both Tension Pullers above

Features & Applications

- Equipped with rings for handling and operation with the Chance Grip-All Clampstick or with rubber gloves
- Both models have a non-swiveling hook on each end for positive hotstick operation
- Spring-loaded gate rotates 135° left or right from closed position
- Large, ratchet wrench selector lever easily accommodates hotsticks

Catalog No.			Weight
C4000574	34.5 kV, Safety Hook both ends	12	lb. / 5.4 kg.
C4000575	69 kV, Safety Hook both ends	12¹	/ ₂ lb./ 5.6 kg.

Tie Back Clamp C4000600 **Conductor Range:** #4 to 397.4 kcmil ACSR



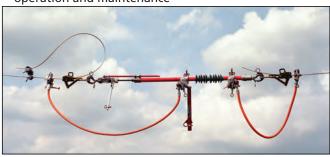
- Tie Back Clamp installs with a Grip-All clampstick
- Used with a Tension Puller to keep the tail of a conductor out of the work area by tying it back to the main line after it has been cut
- Clamp also may be used to hold a jumper on the main line while applying a compression connector

Tension Puller Switching Tool

35 kV Ø-Ø, 600 amps cont, 150 kV BIL

Features & Applications

- Tested per OSHA & ASTM F711
- Tension Puller Switching Tool combines line-tension disconnect switch with Epoxiglas® insulated tool as
- Weathershed polymer skirts are bonded to 1-1/2"-dia.
- Compression clamps secure switch hot parts to pole
- Bypass stud (1/2"-dia.) at each end of switch accepts 3"wide jumper clamps
- Copper switch blade with silver-plated contacts opens to 90° or 180° with stop pin removed
- Galvanized hooks are provided for operation by loadbreak device
- With handling rings, may be operated by either hot-line tools or rubber-glove techniques
- Illustrated instructions give procedures for installation, operation and maintenance





- · Fixed hooks on ends do not swivel
- Latch on hooks has a spring-loaded gate able to rotate 135° left or right from the closed position
- Selector lever on ratchet wrench is extra large for easier operation by hot line tools
- Hot line jumpers installed on conductor and bypass studs create parallel circuit
- Conductor is securely restrained before cut
- Long tail is clamped back onto itself
- Portable loadbreak device may be used to open switch
- For additional recommendations, refer to ANSI C37.35 IEEE Guide for the Application, Installation, Operation and Maintenance of High Voltage Air Disconnecting and Load Intrerrupter Switches
- NOTE: Specifications are same as for 34.5 kV unit

Operate disconnect switch only with a portable loadbreak tool.

Catalog No.	Description	Weight
C4001907	Tension Puller Switching Tool	22 lb. / 9.9 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2264 November 2013



Suspension Insulator Lifter Tool•For up to 12.5"-diameter insulators

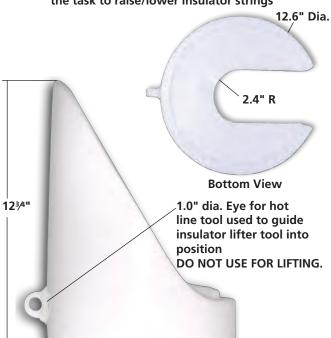
Features & Applications

- For picking up suspension-insulator strings on electric transmission lines during live-line maintenance
- High-density polyethylene tool



1.2" Hole in back for attaching *load line

*NOTE: When tying appropriate knot in load line passed through hole above, leave enough tail to encircle insulator twice and tie back onto load line. Use only a capstan hoist or winch/hoisting equipment specifically designed for the task to raise/lower insulator strings



TO THOSE WHO CLIMB™



Ordering Information

Catalog No.	Rated Working Load	Approx. Wt.
PSC4002927	400 lb. / 181.4 kg.	13.5 lb./6.1 kg.

IMPORTANT:

- 1. Designed for live line work, this tool must be visually inspected and cleaned with an appropriate agent before each use
- 2. Do not use for construction procedures such as installing a string of insulators complete with traveler and ropes



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2265

CHANCE®

All Chance[®] Insulated Jumpers meet ASTM F 2321 Standard Specification.







Insulated Jumper Clamps

Features & Applications

- Used for bypassing work areas when equipment is under repair
- Also used for upgrading lines and making temporary or emergency repairs
- Handles are tough, high-impact strength polyethylene with a wide hand guard flange

15 kV Ø-Ø Rated — 300 Amp Capacity

The G4758 series Jumper Clamp has:

- Handle length of 5-5/8" below the handguard
- Bearing type floating washer lower contact that improves gripping action and prevents conductor scoring
- Metal parts with copper alloy to improve oxidation resistance
- 300 amp continuous rating based on using 2/0 Jumper Cable on tap side

Style I per ASTM F 2321 Standard Specification

Cat.		Main Lin	e Range	Jumper Ca	ble Range	
No.	Description	Max.	Min.	Max.	Min.	Weight
		336.4	#6			2 ¹ / ₄ lb./
G4758	Pair* of	ACSR	Copper	2/0	#2	1.0 kg.
	Clamps	.721"	.162"			

^{*}Cat No. T6010003 for single clamp.

25 kV Ø-Ø Rated — 400 Amp Capacity

The G4765 series Jumper Clamp has:

- The same polyethylene material in the handle as other Chance Jumper Clamps
- Handle length below handguard is 7-1/2"
- 400-amp continuous current rating is based on using 4/0 Jumper Cable on tap side

Style I per ASTM F 2321 Standard Specification

Cat.		Main Line Range		Jumper Cable Range		
No.	Description	Max.	Min.	Max.	Min.	Weight
		477	#6			2 ³ / ₄ lb./
G4765	Pair* of	ACSR	Copper	4/0	#2	1.3 kg.
	Clamps	.883"	.162"			

^{*}Cat. No. T6010039 for single clamp.

35 kV Ø-Ø Rated — 400 Amp Capacity

The G4775 series Jumper Clamp has:

- A larger contact opening for use on larger conductor
- Handle length below the handguard is 8-3/8"
- Use connector C6002598 to assemble sets
- 400-amp continuous current rating is based on using 4/0 Jumper Cable on tap side

Style I per ASTM F 2321 Standard Specification

Cat.		Main Line Range		Jumper Cable Range		
No.	Description	Max.	Min.	Max.	Min.	Weight
		954	#6			3 lb./
G4775	Pair* of	ACSR	Copper	4/0	#2	1.4 kg.
	Clamps	1.165"	.162"			

^{*}Cat. No. T6010040 for single clamp.



Jumper Cable rated Ø-Ø 15 kV with EPR Insulation/Jacket

Features & Applications

- Extremely flexible even at low temperatures
- Features insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone
- Orange/Red color of mold-cured ethylene-propylene-base coating imparts high visibility
- AWG size and voltage rating are embossed at 4-foot intervals for easy
- For extended service life, an extruded screen interfaces insulation and conductor
- This strand screen improves voltage-stress control by adding dielectric 2/0 strength and eliminating internal corona
- Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516
- For easy handling in adverse conditions, conductors are extra flexible alloy-coated copper-stranded rope per ASTM B-189 or B-33
- Ampacity ratings are based on 90°C conductor temperature at 40°C ambient





Type I per ASTM F 2321 Standard Specification

			Approx.	Approx.	Approx.	Weight
	Size		Cond.	Cable	Ampacity	Per
Catalog No.	AWG	Stranding	Diameter	O.D.	Rating, Amps	1000 Ft.
S10043	#2	259/No. 26	0.322"	0.779"	200	438 lb./197 kg.
S10044	1/0	413/No. 24	0.404"	0.863"	260	598 lb./269 kg.
S10045	2/0	273/No. 23	0.455"	0.914"	300	707 lb./318 kg.
S10046	4/0	437/No. 21	0.602"	1.065"	400	1047 lb./471 kg.

Jumper Cable rated Ø-Ø 25 kV and 35 kV with EPR Insulation/Jacket

Features & Applications

November 2013

- Extremely flexible even at low temperatures
- Features insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone
- Orange/Red color of mold-cured ethylene-propylene-base coating imparts high visibility
- AWG size and voltage rating are embossed at 4-foot intervals for easy
- For extended service life, an extruded screen interfaces insulation and conductor
- This strand screen improves voltage-stress control by adding dielectric strength and eliminating internal corona
- Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516
- For easy handling in adverse conditions, conductors are extra flexible alloy-coated copper-stranded rope per ASTM B-189 or B-33
- Ampacity ratings are based on 90°C conductor temperature at 40°C ambient

Type I per ASTM F 2321 Standard Specification

For connectors, see page 2304.

	Size		Approx. Cond.	Approx. Cable	Approx. Ampacity	Weight Per	
Catalog No.	AWG	Stranding	Diameter	O.D.	Rating, Amps	1000 ft.	
25 kV Cable:	25 kV Cable:						
S11272	1/0	413	0.404"	1.113"	260	801 lb./ 360.5 kg.	
S11273	2/0	266	0.450"	1.160"	300	913 lb./410.9 kg.	

Type I per ASTM F 2321 Standard Specification

35 kV Cable:						
S11274	1/0	413	0.404"	1.287"	260	985 lb./443.3 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2303



Jumper Terminals for 15kV EPR Jumper Cable only

Features & Applications

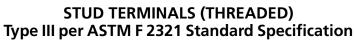
- Shrouded terminals are for use with only grounding clamps (see Section 3000) and EPR Jumper Cable (Page 2305)
- Should only be used as temporary jumper assemblies (and should not be used with insulated jumper clamps, page 2302)
- Extra heavy-duty shroud prevents excessive cable stress at terminal connection
- To match pressure-type and threaded connectors on grounding clamps, both plug and stud terminal styles are available

PLUG TERMINALS (NO THREADS) Type III per ASTM F 2321 Standard Specification

	Catalog No.		Weight
Cable	One Unit,	Burndy	per
Size	Not Installed	Die No.	terminal
#2	C6010190	U243	
1/0	C6010191	U243	2 oz.
2/0	C6010192	U166-206	2 02.
4/0	C6010193	U249	

- Two crimps in Section "A" with Burndy die numbers (or equivalent) below secure terminal to cable
- Anderson VERSA-CRIMP® compression tools are acceptable for making these crimped connections





#2	C6010198	U243	
1/0	C6010199	U243	3 oz.
2/0	C6010200	U166-206	3 02.
4/0	C6010201	U249	



Jumper Clamp Connector Assemblies for 15kV, 25kV & 35kV Jumper Cable

Features & Applications

- Copper Connector Assemblies are necessary to join cable and clamp together on Jumper Clamps or Load Pickup Tools only
- Threads are 5/8-11 NC for all connectors
- Each Catalog Number consists of a copper connector, nut and lockwasher
- Anderson VERSA-CRIMP® compression tools are acceptable for making these crimped connections



C6002598

Type VI per ASTM F 2321 Standard Specification

Catalog		Burndy Die No.	No. of	Weight
No.	Cable Size	(or equivalent)	Crimps	each
C6002598	No. 2	U165	2	4 oz.
C6002599	1/0	U165	2	4 oz.
C6002600	2/0	U165	2	4 oz.
C6002601	4/0	U166	2	4 oz.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2304 November 2013

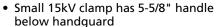


Insulated Jumper Sets for 15 kV, 25kV and 35 kV

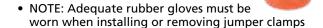
Features & Applications

- Used for bypassing work areas when equipment is under repair
- Also used for upgrading lines and making temporary or emergency repairs
- Pre-assembled for popular distribution-system voltages, 10 sets offer a choice of cable sizes
- Continuous-current ratings for sets range from 200 to 400 amperes based on cable size selected
- All sets include cable listed below
- Ampacity ratings are based on 90°C conductor temperature at 40°C ambient
- AWG size and voltage rating are embossed at 4' intervals on EPR (ethylene-propylene) insulated jacket
- Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516
- Extra-flexible conductors are alloy-coated copperstranded rope per ASTM B-189 or B-33





- Large 15 kV and 25kV clamps each has 7-1/2" handle below handguard
- 35kV clamp has 8-3/8" handle below handguard



15 kV Jumper Cable

Size, AWG	Continuous Current Rating, Amperes	Reference Cat. No.
#2	200	S10043
1/0	260	S10044
2/0	300	S10045
4/0	400	S10046

25 kV Jumper Cable

	•	
1/0	260	S11272
2/0	300	S11273

35 kV Jumper Cable

November 2013

All Chance® Insulated Jumpers meet ASTM F 2321 Standard Specification.



Ordering Information

Each set includes one 12 ft. cable assembled with two crimp connectors to two jumper clamps.

15 kV Sets

Style I, Type I, Class A
per ASTM F 2321 Standard Specification

Small-Conductor Range

Catalog No.	Cable	Weight	Main L	ine Range
C6010163	#2	8 lb. / 3.6 kg.	Min.	Max.
C6010162	1/0	9 ³ / ₄ lb. / 4.4 kg.	#6 Sol. Cu.	336.4MCM ACSR
C6010164	2/0	11 ¹ / ₄ lb. / 5 kg.	(0.162")	

Large-Conductor Range

		-		
C6010171	#2	8 lb. / 3.6 kg.		
C6010172	1/0	9 ³ / ₄ lb. / 4.4 kg.	#6 Sol.	477 MCM
C6010173	2/0	11 ¹ / ₄ lb. / 5 kg.	Cu.	ACSR
C6010174	4/0	15 ¹ / ₄ lb. / 7 kg.	(0.162")	(0.883")

25 kV Sets

Style I, Type I, Class A per ASTM F 2321 Standard Specification

C6010269		10 lb. / 4.5 kg.		
C6010270	2/0	11 ¹ / ₂ lb. / 5.2 kg.	Cu. (0.162")	ACSR (0.883")

35 kV Set

Style I, Type I, Class A per ASTM F 2321 Standard Specification

C6010271	1/0	15 ¹ / ₂ lb. / 7 kg.	Cu.	954 MCM ACSR
			(0.162")	(1.165")

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2305



Insulated By-Pass Jumpers

• Rated for 15 kV phase-to-phase systems







Features & Applications

- Center support for easy application
- Available in four jumper-cable sizes
- Features mid-span orange 8'-long epoxy-resin, fiberglassreinforced-plastic (FRP) tube
- Rigid 1-1/2"-O.D. tube serves as a support for easy handling of jumper set by rubber gloves or hot-line tools
- This makes the unit especially handy when jumpering switchgear, reclosers or cutting in double deadends
- Completely pre-assembled
- Two non-metallic hangers one at each end of the FRP support tube
- These hangers provide for parking the by-pass clamps while moving the jumper set into or out of the work area since the 16'-long jumper cable (with EPR jacket) is secured where it exits the FRP tube, 4' of cable extend from both ends of the rigid support
- Threaded compression assemblies each comprising a connector, nut and lockwasher, all of copper – are applied at the cable ends
- Two clamps (each a Chance C6001743) also come installed with cable strain-relief clamps to complete the by-pass jumper set



Ordering Information

Insulated Jumper Sets
Each: 16-ft. overall length (includes 8-ft. tube)
with two C6001743 clamps applied on cable
by copper connector assemblies

Catalog	Cable Size,	Continuous Current	Weight
Number	AWG	Rating	(lb./kg.)
C6010260	#2 – 15kV	200 amperes	27/12.15
C6010261	1/0 – 15kV	260 amperes	29/13.05
C6010262	2/0 – 15kV	300 amperes	32/14.4
C6010263	4/0 – 15kV	400 amperes	37/16.65

Clamp Specifications

- · Aluminum body with smooth jaws
- · Bronze eyescrew with fine threads

Recommended Torque 250 inch-pounds

Main Line Range:

Minimum #6 Solid Copper (0.162")
Maximum 1590 kcmil ACSR (1.5")

Terminal threads 5/8"-11 UNC

(plus cable strain-relief

clamps)



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2306 November 2013



34.5 kV By-Pass Jumpers 20 kV Phase-to-Ground





Features & Applications

- Solid aluminum rod is epoxi-sealed inside a polypropylene tube
- Tube is silicone-sealed inside a 1-1/2" Chance Hot Stick handle
- Brass couplings are threaded onto the end of the solid rod, pinned and 3' of 4/0, clear
- Jacketed grounding cable is threaded into the coupling.
- Current capacity is 400 amps

Catalog No.	Description	Approx. Wt.
C6010036	8' Epoxiglas, 14' Over-all w/	18 lb./
	Threaded Stud Terminals	8.1 kg.
C6010037	10' Epoxiglas, 16' Over-all w/	21 lb./
	Threaded Stud Terminals	9.5 kg.
C6010038	12' Epoxiglas, 18' Over-all w/	24 lb./
	Threaded Stud Terminals	10.8 kg.

JUMPER CABLE SUPPORT



- Four swivel-action clamp assemblies with a cable diameter capacity of from 3/4" to 1-1/2" provide a non-slip grip for jumper cables
- Prevents sagging secondaries and cables touching the ground
- Each clamp is rated to carry 75 lbs.
- Epoxiglas® arm is 2-1/2" in diameter by 4' long and includes wheel tightener for pole mounting

Catalog No.	talog No. Description	
C6010013	Cable Support, wheel binder	25 lb./11.3 kg.

INSULATED HANGER

- Serves as convenient parking stand for linemen installing Jumper Clamps or Grounding Clamps on lines up to 34.5 kV
- 1-1/4" x 15" Epoxiglas® pole provides the insulated section
- Bronze double stud fitting is 1/2" x 3-1/2" on each side

Catalog	Conduct		
No.	Max.	Min.	Weight
S16007	636 MCM ACSR	#8 Solid Copper	2 ¹ / ₄ lb./1.0 kg.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

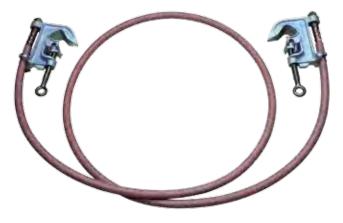
November 2013 Page 2307



Insulated Jumper Sets for 15kV hotstick applications

Features & Applications

- Meet ASTM F 2321 Standard Specification
- Eight popular sets below serve most applications
- Other clamps and cable combinations available upon request



Reference 15 kV Jumper Cable

Size, AWG	Continuous Current Rating, Amperes	Reference Cat. No.
#2	200	S10043
1/0	260	S10044
2/0	300	S10045
4/0	400	S10046

- Ampacity ratings are based on 90°C conductor temperature at 40°C ambient
- AWG size and voltage rating are embossed at 4' intervals on EPR (ethylene-propylene) insulated jacket
- Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516
- Extra-flexible conductors are alloy-coated copperstranded rope per ASTM B-189 or B-33

- Two C-type aluminum grounding clamps with smooth jaws and bronze eyesecrews
 - o Cat. No. C6001743 (see Catalog Section 3000)
 - o Main Line Range: #6 solid copper (0.162") through 1590kcmil ACSR (1.50")
- 15kV EPR-insulated jumper cable
 - o Choice of four sizes
 - o Choice of 12- or 15-foot length
- Two threaded copper compression ferrules
 - o Installed on cable selected
 - o Assembled to clamps

Ordering Information

Each set includes cable in length listed assembled by two crimp connectors to two clamps.

#2 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

Catalog No.	Cable Length	Weight
T6010281	12 feet	8 ³ / ₄ lb. / 4 kg.
T6010282	15 feet	10 lb. / 4.5 kg.

1/0 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

T6010283	12 feet	10 ² / ₃ lb. / 4.8 kg.
T6010284	15 feet	12 ¹ / ₂ lb. / 5.6 kg.

2/0 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

T6010285	12 feet	12 lb. / 5.4 kg.
T6010286	15 feet	16 lb. / 6.4 kg.

4/0 Cable Sets Style II, Type II, Class A per ASTM F 2321 Standard Specification

T6010287	12 feet	16 lb. / 7.3 kg.
T6010288	15 feet	19 lb. / 8.7 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2308 November 2013



Load-Pickup Tool for 15kV systems Feat

Electrical Ratings: Nominal 15kV

3-phase or 8.3kV single phase

circuits; 250 amps continuous

Main Line Range: #6 Copper

(0.162") minimum through 795

kcmil ACSR (1.108") maximum

current

November 2013

Features & Applications

- Rated for loads as high as 250 amperes
- Fits #6 Copper through 795 kcmil ACSR
- Can be used to pickup loads and carry 250 Amps at 15kV
- Rubber gloves should be worn while installing
- Head has a floating washer to minimize conductor damage as jaws are installed
- Contacts are spring loaded and can be closed by pulling an insulated lanyard, putting the operator away from the tool during pickup operations
- Positive contact operation
- Tool cannot be used as a load-break tool as the operator cannot open the contacts while the tool is on the conductor
- Fiberglass rod, attached to the end of the lanyard, is used to recock the contacts
- Because it must be inserted through head of tool, lineman must remove tool from conductor before recocking
- Orange-tinted translucent Lexan® housing permits easy visual inspection
- Nylon handguard is used to keep lineman's hand away from energized area
- By simply removing two screws in handguard, the tool can be disassembled for inspection and maintenance
- All current carrying parts are copper or copper alloy and contacts are silver plated
- Recommended 15kV jumper cables for this tool are #2 and 1/0
- Recommended that Load-Pickup Tool be inspected and cleaned after 25 operations or after 90 days
- Clean all plastic parts with a soft cloth, damp with ethyl alcohol only



Closing the Contacts



Recocking The Contacts

- Contacts are opened by passing the recocking rod through head on tool and pushing plunger to fully opened position
- Operation cannot be completed when tool is connected to conductor

For pre-assembled Load-Pickup Tool/Jumper Cable sets, see page 2310. For Cable and Connector Assemblies see page 2305.

Catalog Number	Description	Weight
C4031631	Load-Pickup Tool only	6.4 lb./2.9 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2309

CHANCE

Load-Pickup Tool Sets Pre-assembled for 15kV systems

Features & Applications

- Rated for loads as high as 250 amperes
- Include load-pickup device, jumper clamp, 15 kV cable
- Rated to pickup and carry 250-amp loads at 15kV
- Each completely assembled set consists of Load-Pickup Tool, Jumper Clamp, 15 kV Jumper Cable and cable connectors
- Load-Pickup Tool and Jumper Clamp fit conductors from #6 Copper (0.162") through 795 ACSR kcmil (1.108")
- Four standard sets include options for 10' or 12' lengths of either #2 or 1/0 Jumper Cable
- Other pre-assembled sets are available
- These sets combine other Chance-Jumper Clamps, other sizes and lengths of Jumper Cable and appropriate connectors (Catalog pages 2302 and 2306)
- Individual components also may be ordered for customer assembly of various combinations.

Operation & Maintenance

- Load-Pickup Tool cannot be used to break loads because operator cannot open contacts while Tool is installed on conductor
- To recock contacts, operator inserts fiberglass rod through head of Tool to push plunger to fully-opened position
- Rod is supplied attached to end of operating lanyard
- Pulling this insulated lanyard closes the spring-loaded contacts
- Positive contact operation
- Bearing-type floating washers in jaws of Tool and Jumper Clamp assure secure gripping but minimal scoring of conductors during installation
- WARNING: Adequate rubber gloves must be worn when using this equipment
- Clean and inspect Load-Pickup Tool after every 25 operations or at least once every 90 days
- Clean all plastic parts with a soft cloth dampened with only ethyl alcohol
- To disassemble Tool, simply remove two screws in handguard

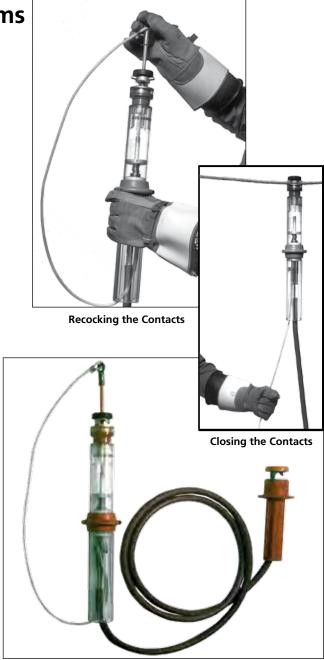
Construction Features

Load-Pickup Tool:

- o Orange-tinted translucent Lexan® housing permits easy visual inspection
- o Current-carrying parts of Copper or Copper alloy
- o Contact points are silver plated
- o Handguard of high-impact Nylon keeps hand away from energized area

Jumper Clamp:

- o Current-carrying parts of Copper alloy
- o Handles of high-impact Polyethylene
- o Wide handguard flange keeps hand away from energized area



All Units

Electrical Ratings: Nominal 15kV 3-phase or 8.3kV single phase circuits.

Jumper Clamp: #6 Copper (0.162") minimum through 795 kcmil ACSR (1.108") maximum.

Catalog	Cable	15 kV Cable	Continuous	Weight
Number	Length	Size	Current	(lb./kg.)
C4031557	10 ft.	#2	200 amps	17.75/8.05
C4031558	12 ft.	#2	200 amps	19.62/8.89
C4031559	10 ft.	1/0	250 amps	20.8/9.43
C4031560	12 ft.	1/0	250 amps	23.28/10.55



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2310 November 2013



Standard

Type

Temporary Cutout Tools for 15kV and 27kV

Features & Applications

- To provide fuse protection during live-line maintenance, temporary cutout tool simply clamps onto primary conductor with a Grip-All clampstick
- Brass stud at lower end accepts clamp on temporary tap jumper
- Insulated bushing and hot parts are from Chance Type C-Polymer cutouts
- Upper contact with integral sleet shield and hooks for operation by loadbreak tool and lower trunnion of cast bronze
- Fusetube must be fitted with fuselink rated no larger than 100 amps
- Available in ratings for 15kV and 27kV systems
- Tools come with or without a pivot-lever closing device

Standard Type

Fuse Tube 100 Amps Continuous Current

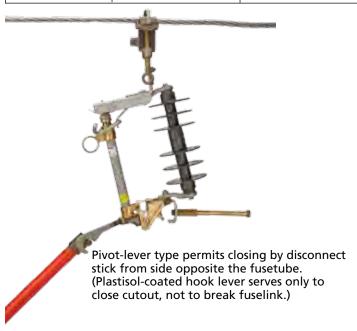
Catalog Number	REPLACES Cat. No.	System Class	Interrupt Capacity	Weight (lb/kg.)	Fuseholder Replacement
PSC6010341	C6001895	15kV	10,000 Amps		T710112T
PSC6010342	C6001896	27kV	8,000 Amps	10½ / 4.8	T710211T

Solid Blade 300 Amps Continuous Current

Catalog	REPLACES	System	Momentary	Weight	Solid Blade
Number		Class	Capacity	(lb/kg.)	Replacement
PSC6010343	C6002862	15kV	12,000 Amps	81/4 / 3.7	T710133T
PSC6010344	C6002863	27kV	12,000 Amps	11½/5.2	T710233T

All Models include Clamp C6002275 at top with these specifications:

Main Lin	e Range	Тар
Minimum Maximum		Stud
#6 Sol. Cu. (0.162")	1033 kcmil ACSR (1.25")	1/2" diameter





Catalog No.	REPLACES Cat. No.	System Class	Weight
PSC6010345	C6001944	15kV	8 ³ / ₄ lb. / 3.97 kg.
PSC6010346	C6001945	27kV	12 lb. / 5.44 kg.

Pivot-Lever

Type

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



November 2013 Page 2311

CHANCE

Temporary Load Disconnect Tools 8.3/15kV & 15/27kV applications*

Features & Applications

- Available in two sizes
- Provides a temporary means of connecting and disconnecting equipment or circuits under load conditions
- Design does not have a fuse and does not provide protection for fault or overcurrent conditions
- Insulated bushing and hot parts are from Chance Type C-Polymer cutouts, including tubular-copper disconnect blade
- Arc-chute-type interrupter gives tool excellent loadbreak capability
- To interrupt load currents, device employs a stainlesssteel auxiliary blade within Delrin® arc chute
- Tool simply clamps onto primary conductor with a Grip-All clampstick. Bronze stud at lower end accepts clamp on temporary tap jumper

Operation

- Self-contained loadbreak device operates by simple disconnect stick
- No special or portable tools are required to operate unit
- To break current, insert a disconnect stick into operating ring and rapidly open device
- When opening, spring-loaded auxiliary blade snaps out through the arc chute to elongate, cool and extinguish the confined arc
- Loadbreaking operation is independent of the disconnect stick speed
- To provide a clearly visible break, the disconnect blade hangs in approximately a vertical position
- Unfused or unswitched loads can be disconnected by first installing this tool and a temporary bypass jumper in parallel with permanent tap connection





Temporary Load Disconnect Tools

Both models include protective carrying case and illustrated operating and maintenance instructions.



- After closing tool blade, the permanent tap can be disconnected
- The load can then be dropped or reconnected by operating blade tool
- It should never be closed into a fault or opened during a fault

Installation & Removal

- To install the tool, first remove its main blade
- Next, secure both clamps of suitable temporary jumper onto tap stud of tool's lower hinge
- Use a Grip-All clampstick to install tool onto main line conductor
- Use clampstick to secure one of the jumper clamps onto line with load to be picked up
- Use disconnect stick to place blade in lower hinge of tool
- Use disconnect stick in operating ring to close blade according to safe work procedures
- Take care when removing disconnect stick to avoid opening blade
- The equipment or circuit is now energized through the tool
- Before removing tool, first make up a permanent connection so there are two energizing paths
- Use a disconnect stick in the operating ring to open the blade according to safe work procedures and to remove blade from lower hinge of the tool
- Use a clampstick to take jumper clamp from conductor and secure it on tool stud
- Then use the clampstick to remove the tool from the main line conductor

Specifications (both models)

Max. loadbreak current: 300 amps
Max. momentary rating: †12,000 asym amps

[†]This is a pass-through fault-current rating only. The tool should never be opened or closed when the current exceeds the maximum continuous load current of 300 amps.

Main line range (both models)

Minimum: #6 solid copper (0.162" dia.) Maximum: 1033 kcmil ACSR (1.25" dia.)

Tap stud: 1/2" diameter

Catalog No.	REPLACES Cat. No.	Description	Disconnect Blade	Arc-Chute Assy.
PSC6010347	C6002386	*8.3/15kV Temporary Load Disconnect Tool	T730133T	F720000D
PSC6010348	C6002387	*15/27kV Temporary Load Disconnect Tool	T730233T	E7300009P

^{*}For application on single-phase-to-neutral or three-phase solidly-grounded wye-connected circuits where recovery voltage does not exceed the max. design voltage of the device.





Tension Puller Switching Tool

Features & Applications

- Tested per OSHA & ASTM F711
- For line tension up to 4,000 lbs. with manual hookstick switch
- Maximum ratings: 35 kV Ø-Ø, 600 amps continuous, 150 kV BIL
- · Permits a live overhead distribution line to be cut
- By bearing the mechanical load, it helps create a parallel circuit
- This averts service interruption while the cutting and related work are performed
- May be applied wherever disconnect switch is desired for temporary sectionalizing
- Tool is properly rated concerning line tension, continuous current, BIL and system voltage
- Applications that require cutting a conductor include: o Deadend-structure construction
 - o Overhead switch installation on a structure o In-line switch installation
- Combines two Chance products: Epoxiglas® insulated

- tension puller and LTD® line-tension disconnect switch
- For this special tool, weathershed skirts of a tough, lightweight polymer have been bonded to the tension puller's 1-1/2"-diameter Epoxiglas pole
- At both skirt ends, a locating pin aligns a compression clamp to secure switch hot parts to pole
- A bypass stud (1/2"-dia.) added at each end of switch accepts clamps up to 3" wide
- Rigid, H-frame copper switch blade opens to a standard 90°, or to 180° with stop pin removed
- Contact areas are silver-plated for high conductivity
- Galvanized-steel hooks are provided for use with a portable loadbreak device
- For easy opening and icebreaking, pull ring (1-1/4"-dia. eye) activates latch as a pry-lever
- Hooks on ends are fixed and do not swivel
- Safety latch on hooks has a spring-loaded gate able to rotate 135 degrees left or right from closed position
- Selector lever on ratchet wrench is extra large for easier operation by hot line tools



Installation & Operation

- Equipped with rings, tool may be handled and operated by hot-line tools or rubber-glove live-line techniques
- Illustrated instructions included with each unit give application considerations and procedures for installation, operation and maintenance
- Suspended from hot-line wire grips with the disconnect switch closed, tension puller works like a jack
- Operating the ratchet wrench brings the tool's two ends closer
- This reduces tension on the conductor between the tool's hooks
- Hot line jumpers sized to the application are installed on the conductor and the tool's bypass studs to create a parallel circuit
- Before cutting the conductor, it is securely restrained
- Once cut, its long tail is clamped back onto itself
- A properly rated portable loadbreak device may now be hung on the tool's disconnect hooks and used to open the switch
- Refer to ANSI C37.35 IEEE Guide for the Application, Installation, Operation and Maintenance of High

Specifications

Capacity: 4,000 lb. (1,800 kg.)

Working Range: 58 to 70 in. (1,473 to 1,778 mm) **Maximum Take-up:** 12 in. (305 mm)

Insulation:

November 2013

Minimum 24 in. (610 mm)
Maximum 36 in. (914 mm) **Length:** 60 in. (1,524 mm)



Voltage Air Disconnecting and Load Intrerrupter Switches

- For proper installation, select from four sizes of hot-line wire grips shown on Chance catalog page 1258 and the full range of jumper equipment in this section
- To secure cut end of conductor, tie back clamp C4000600, shown on Chance catalog page 2264, fits conductors ranging from #4 to 397.4 kcmil ACSR



Operate disconnect switch with **only** a portable loadbreak tool.

Catalog No.	Description	Weight
C4001907	Tension Puller Switching Tool	22 lb. / 9.9 kg.





Epoxiglas® Swivel Hook Ladders



- Meets ASTM F711 and IEC 61478 Category 2
- Designed to effectively position linemen for high-voltage maintenance
- Make line repairs possible, even in inaccessible places
- Two basic styles of Epoxiglas Hook Ladders are available
 - o Regular Duty Ladders with 2" siderails for vertical suspension applications
 - Heavy Duty Ladders with 2-1/2" siderails for tagged-out positions

- Hooks are formed from 1"-diameter tempered steel
- These hooks can be swiveled to best fit various angles on structure
- Ladders include 8"-dia. hooks
- 14"- or 18"-dia. hooks can be ordered for other structure applications
- Steel chains clip to hooks to assist in securing ladder to support
- Rung material for both rated ladders are 1-1/4" sand-coated Epoxiglas

REGULAR-DUTY HOOK LADDERS 2" SIDE RAILS

Catalog No.	Overall	Distance Between	
8" Hooks*	Length	Side Rails	Weight
H49048	8'	141/2"	42 lb./18.9 kg.
H490410	10'	141/2"	46 lb./20.7 kg.
H490412	12'	141/2"	52 lb./23.4 kg.
H490414	14'	141/2"	60 lb./27.0 kg.
H490416	16'	141/2"	68 lb./30.6 kg.

HEAVY-DUTY HOOK LADDERS 2½" SIDE RAILS

Overall	Distance Between	
Length	Side Rails	Weight
8'	141/2"	47 lb./21.2 kg.
10'	141/2"	55 lb./24.8 kg.
12'	141/2"	63 lb./28.4 kg.
14'	141/2"	70 lb./31.5 kg.
16'	141/2"	76 lb./34.2 kg.
18'	141/2"	85 lb./38.3 kg.
20'	141/2"	98 lb./44.1 kg.
	Length 8' 10' 12' 14' 16' 18'	Length Side Rails 8' 14¹/₂ " 10' 14¹/₂ " 12' 14¹/₂ " 14' 14¹/₂ " 16' 14¹/₂ " 18' 14¹/₂ "

*Add suffix "A" to catalog number for 14" hooks. Add suffix "B" to catalog number for 18" hooks. Rated Working Load per Hook 8" hook 1250 l

14" hook 1000 lb. 18" hook 750 lb.

NOW CERTIFIED TO IEC 61478 - CATEGORY 2 TEMPORARY INSTALLATION

Includes full line offering

- Ladders: Swivel Hook, spliced and three-rail
- Brackets for poles and towers
- Accessories: clamps, hooks, spreader bar, swivel sticks
- Leakage-current monitor meter kits

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2352 June 2014



Epoxiglas® Spliced Ladders

Features & Applications

- Meets ASTM F711 and IEC 61478 Category 2
- Available in combinations of up to 32' in 2-1/2"-dia. side rails
- · All splices are interchangeable, offering a variety of total reach



- Available in various section lengths for convenient transport
- Hooks are made of 1" diameter steel and have an 8" diameter arch to hook over structural shapes
- Hooks are complete with steel chains
- Larger hooks are available on special order
- Heavy-duty Chance Epoxiglas Ladders, manufactured in short, easy-to-transport lengths, are joined with Chance Rigid Ladder Splice to form unshakable, rigid splice
- Two eye pins with a klik pin in the end of each are supplied with each splice



Catalog No.	Top Section Length	Weight
C4020482	10'	44 lb./19.8 kg.
C4020402	12'	48 lb./21.6 kg.
C4020404	14'	52 lb./23.4 kg.
C4020407	16'	56 lb./25.2 kg.
C4020411	20'	64 lb./28.8 kg.
T4020423	10' middle section	44 lb./19.8 kg.

Catalog No.	Bottom Section Length	Weight
C4020418	8'	28 lb./12.6 kg.
C4020421	10'	32 lb./14.4 kg.
C4020422	12'	36 lb./16.2 kg.

Three Rail Ladder

Features & Applications

- Meets ASTM F711 and IEC 61478 Category 2
- Greater mechanical strength and less deflection enhance worker efficiency
- Designed for working in tagged-out position
- Third rail provides for a convenient, centered, safetybelt-tie
- Also divides ladder rung into natural positions for each foot placement
- Specifications include:
 - o 2-1/2" center rail, capped on both ends
 - o 2" side rails with 8" swivel hooks on top and caps on bottom end of rail
 - o 1-1/4" sanded rungs
 - o Steel tie rods top and bottom
 - o Pinned sleeves on outside rails for spliced ladders with a 15-1/2" center
- Both straight and spliced ladder units are available

Fixed-Length (non-spliced) Ladder

Catalog No.	Description	Weight
C4020119	20' Straight Ladder	100 lb./45.0 kg.

Spliced Ladders

C4020512	8' Bottom Section	43 lb./19.4 kg.
C4020513	12' Bottom Section	52 lb./23.4 kg.
C4020514	12' Top Section	62 lb./27.9 kg.

HUBBELL

CHANCE®

Ladder Support Attachments



E4020525

Ladder Support Assembly for Vertical Tower Member



Ladder Support Assembly for Horizontal Tower Member

E4020568



L E4020526

Vertical Ladder Support

Attachment for Wood Poles





E4020138P Ladder Clamp

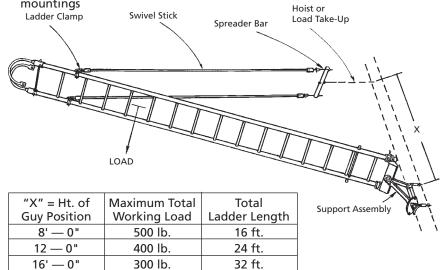


Double Clamp 2½" and 1½" Diameter

Features & Applications

- Quick, easy rigging on most types of structure
- Converts Chance Epoxiglas® ladder to a platform for live-line maintenance
- Sets are designed for steel or wood structures, vertical or horizontal
- Support the structure-end of the ladder in a tagged-out position
- Sets are designed for use on 2-1/2"-dia. side rail ladders
- Can be ordered as sets or individual components
- Diagram below shows a typical rigging and working loads with various guy mountings

 Heist of



Kits Consist Of	C4020139 Ladder Support Kit For Vertical Attach.	C4020140 Ladder Support Kit For Horizontal	C4020155 Ladder Support Kit For Vertical Attach.
Following:	On Towers	Attach. On Tower	On Wood or Steel Poles
E4020525 Vertical Attachment Tower	1		
E4020087 Horizontal Attachment Tower		1	
E4020526 Vertical Attachment Pole			1
E4020568 Yoke Assembly	1	1	1
E4020099 Spreader Bar	1	1	1
E4020138P Ladder Clamp	2	2	2
E4020141 (Also see Swivel Stick *below)	2	2	2
E4020092 Double Clamp	1	1	1
Total Kit Weight	61.5 lb./27.7 kg.	50 lb./22.57 kg.	61.5 lb./27.7 kg.



*Swivel Sticks (1¼" dia.)

Tested per OSHA & ASTM F711

	•
Cat. No.	Length
*E4020141	12 ¹ / ₂ ft.
*T4020899	6 ft.
*T4020900	8 ft.
*T4020901	10 ft.



Adjustable Ladder Hook

Features & Applications

- Easily attaches in one quick operation
- Position on Epoxiglas® side rail, swing bolt around and tighten wing nut
- Made of 1"-dia. heat-treated, rust-resistant steel
- Equipped with rugged chain and chain snap for positive lock between ladder and support
- Hooks are rated at 1,000 lbs. per pair

Catalog No.*		For Side	Approx. Wt.,	
8" Hook	14" Hook	18" Hook	Rail Dia.	Each†
H49041	H49241	_	2"	7 lb./3.2 kg.
H49051	H49251	H49451	21/2"	7 lb./3.2 kg.

- * Catalog No. includes one (1) Hook, Chain, and Chain Snap.
- † Weights listed are for an 8" Hook; 14" Hook 81/2 lb. each; and for 18" Hook 141/2 lb. each.

Ladder Monitor Kit

Features & Applications

- Used with EHV Barehand maintenance procedure to detect microamp leakage on ladder before use
- Meter connects to ladder and takes readings as ladder is placed in contact with conductor
- It is recommended that readings be taken periodically to ensure optimum working conditions, which can be altered by a change in atmosphere
- Kit includes:
 - o A 200 micro-amp scale microammeter
 - o 3 clamps for use with three-rail ladder
 - o A cable with clips and adapter to establish contact
 - o A bracket to ground and hold the meter on the structure
 - o 2 dry cell batteries
 - o Instruction drawings for field assembly
 - o Operating instructions



- Adjustable hooks can be used with Epoxiglas Hook Ladders to obtain a more convenient position
- Can be attached to an Epoxiglas Service Ladder for use as a temporary hook ladder
- Adjustable Hooks are ideal for suspension use for uneven or sloping supports



Catalog No.	Description	Weight
C4020288	Ladder Monitor Kit	7.5 lb./3.4 kg.

Chance Sentine Leakage-Current Monitor

Features & Applications

- Alerts utility-line workers of overcurrent conditions
- For aerial devices, including insulated ladders and truck booms
- Sounds an alarm if leakage current reaches a pre-set level
- Leakage setting adjusts from 1 to 1,000 microamperes in resolution increments of 0.1 microamp
- Audible warning eliminates the need to watch LCD screen current level
- Alarm sounds upon overcurrent and continues until condition is corrected
- Jack on instrument panel accepts standard 1/4" two-conductor phone plug to trigger horn or other external alarm
- Panel test terminal permits continuity check of monitor leads prior to operation
- Before each use, instrument automatically performs rapid electronic self test
- Simple operating steps are printed on the inside lid panel

Catalog No.	Description	Weight
C4070025	Chance Sentinel Kit	9 lb./4.05 kg.



- Detailed instruction sheet also comes with each unit
- Kit includes 1 coaxial cable and battery, plus 2 jumpers and 3 hose clamps for connections to two- or three-rail ladders
- Brackets on box secure to an earth-grounded structure up to 5/8" thick, such as a transmission tower



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

June 2014 Page 2355

CHANCE

Epoxiglas® Insulated Platforms

Features & Applications

- Unique design features 12" of clear insulation
- Two 2"-dia. orange Epoxiglas poles connect the platform to the mounting bracket
- No other platforms include these insulating members
- Manufactured to the same exacting standards as Chance hot-line tools: OSHA subpart V, section 1926.951(d) and ASTM 711
- Cleaning and care of Epoxiglas components are same as for Chance hot-line tools
- Maximum load rating, all platforms: 500 lbs.

Mounting Options & Accessories

- To provide convenient workstations for rubber-glove work on energized lines, these platforms quickly secure to pole with either of two mounts:
 - o Fixed mount, for jobs that do not require frequent platform relocation, comes as part of each basic platform and includes a chain binder and wheel tightener
 - o Pivot mount, optional for easy positioning to access jobs, permits worker to swivel the mounted platform on its horizontal plane
- For belt-on/restraining guide, add optional Tripod or Railing
- For improved footing, three strips of 2" non-skid tape extend the length of the platform

4-ft. Insulated Platform

Epoxiglas Tripod and Pivot Base must be ordered as separate items.



6-ft. Insulated Platform

Epoxiglas Railing and Pivot Base each must be ordered as separate items.



Each Epoxiglas Insulated Platform listed below is 10" wide and furnished with a Fixed Pole Mount

Catalog No.	Description	Weight
C4021042	4-ft. Insulated Platform	49 lb./22 kg.
C4021043	6-ft. Insulated Platform	56 lb./25.2 kg.
C4021079	8-ft. Insulated Platform	60 lb./27 kg.

Standard Aerial Platforms



4-ft. Standard Aerial Platform
Epoxiglas Tripod must be ordered as separate item.

6-ft. Standard Aerial Platform

Epoxiglas Railing must be ordered as separate item.

Maximum Load Rating, all platforms: 500 lb.

Features & Applications

- Designed to provide a convenient workstation on an aerial structure
- Quickly mount on structure to help place linemen in correct working position

Mounting Options & Accessories

- Feature a Fixed Pole Mount for jobs that do not require frequent platform relocation
- Pivot Mounts (available below as optional accessories) allow platform to be swiveled on its horizontal plane for different positions
- For belt-on and as restraining guides for workers, Epoxiglas Tripods or Railings may be added – see page 2357
- For improved footing, three strips of 2" non-skid tape extend the length of the platform
- Bare section near mounting end helps reduce moisture accumulation
- Also provides an area between the working surface and the mount fittings that can be readily wiped clean of dirt and moisture when necessary

Each Standard Aerial Platform listed below is 10" wide and furnished with a Fixed Pole Mount

Catalog No.	Description	Weight
H496442W	42-in. Standard Platform	40 lb./18 kg.
H49644W	4-ft. Standard Platform	49 lb./22 kg.
H49646W	6-ft. Standard Platform	56 lb./25.2 kg.
H49648W	8-ft. Standard Platform	71 lb./32 kg.

Each Standard Aerial Platform below is 10" wide and furnished with an Epoxiglas Railing & Fixed Pole Mount

Catalog No.	Description	Weight
T4020632	10-ft. Standard Platform	86 lb./39.7 kg.
T4020619	12-ft. Standard Platform	105 lb./47.3 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2356 June 2014

Suspension Platform

Features & Applications

- Constructed of the same material as Standard Platforms
- Design incorporates 26"-high Epioxiglas® tripod railing into suspension brace
- 10"-wide and furnished with a Pivot Mount
- Adjustable through a 180° horizontal range
- 400 lb. capacity in perpendicular position to, and directly in line with, structure

Catalog No. Description		Weight
T4020030	48-in. Utility Platform	80 lb./36 kg.

ht 6 kg.

with structure

Strut base folds against board for compact, easy transport and storage

T4020030

Capacity is reduced to 300 lbs. in side loading position Pivots 90° to the left or right of an "in-line" position

For improved footing, three strips of 2" non-skid tape

 400 lb. capacity in perpendicular position to, and directly in line with, structure

 For improved footing, three strips of 2" non-skid tape extend the length of the platform

extend the length of the platform



Utility Platform

Features & Applications

- Designed for limited workspace
- Furnished with Fixed Pole Mount

Catalog No.	Description	Weight
C4020426	30-in. Utility Platform	32 ¹ / ₂ lb./14.6 kg.

Platform Mounting Attachments

Fixed Pole Mount – fits all Chance platforms except Suspension model

Catalog No. Description Weight
M490110W Fixed Pole Mount for Platform 9 lb./4.1 kg.

M490110W includes 30" chain binder with self-locking handwheel and one hinge pin.



Fixed Tower Mount – fits all Chance platforms except Suspension model For attachment to tower legs 3½" x 3½" to 8" x 8"

Catalog No.	Description	Weight
M490121	Fixed Tower Mount for Platform	10 lb./4.5 kg.





Pivot Mounts for Poles – fit all Chance platforms except Utility model

Features & Applications

- Handwheel on top and interlocking teeth on two pivot plates provide simple, sure adjustment to work angle needed
- Two sizes vary in height to fit all applicable platforms as listed
- Pivot range permits 140° adjustment in increments of approximately 9° per tooth on matching plates

Catalog No.	Description	Weight
C4021164	Pivot Base for 42" or 4' Platform	28 ¹ / ₄ lb./12.7 kg.
C4021173	Pivot Base for 6' or 8' Platform	29 ¹ / ₄ lb./13.2 kg.

- Turning handle raises and lowers upper plate
- Stainless-steel guide pin keeps plates aligned
- Groove in upper plate centers on rib in base to ensure teeth engagement at every angle setting

Each Pivot Base includes two 30" chain binders with self-locking handwheels and one hinge pin.



Platform Tripods and Railings

Epoxiglas® construction adds belt-on capability and restraining guide for lineworkers. Note specific applications below.

Tripod Railings

 fit Insulated and Standard Aerial models as listed (for Suspension model tripod, consult factory)

-	•	•
Catalog No.	Description	Weight
H4964 Tripod for 4-ft. Insulated model only		9 lb./4.1 kg.
T4021195	Tripod for 42-in. or 4-ft. Standard model	9 lb./4.1 kg.

Platform Railings

- fit Insulated and Standard Aerial models as listed

Catalog No.	Description	Weight
	Railing for 4-ft. Insulated Platform*	13 lb./5.9 kg.
	Railing for all 6-ft. Chance Platforms	
C4020024	Railing for all 8-ft. Chance Platforms	17 lb./13.5 kg.

^{*}except Suspension model



CHANCE®

Platform Ladder

Features & Applications

- Allows workers to stand or sit at worksite instead of kneeling on structure
- Convenient and efficient
- Proven products combine in Chance Platform Ladder: 48"-long Epoxiglas® Ladder and two 20"-long sections of 10"-wide Platform joined side-by-side constitute a bosun's chair
- Adjustable ladder hooks may be added (see Catalog page 2355)
- Platform Ladder may be suspended and tagged-off with rope, wire tongs or a combination of both in order to maneuver a worker into position
- Platform Ladder folds into a compact package for quick rigging and easy storage
- Although rated for 500-lb. loads, users must give serious consideration to capacity of the point from which it is suspended and the equipment used to suspend it
- For improved footing, three strips of 2" non-skid tape extend the length of the platform



Catalog No.	Description	Weight
C4020276	Platform Ladder, no hooks	36 lb./16.2 kg.

Epoxiglas® Service Ladders

Features & Applications

- Offer greater safety when working around energized lines
- Easier to transport much lighter than comparable wood ladders
- Spacing between side rails and rungs meets largest central station and telephone company specifications
- Side rails of 1-1/2"-dia. Epoxiglas are plastic-covered at top for cushioning
- Rubber feet are supplied on bottom end
- Rungs are of 13/16"-dia. glass fiber

Rated for loads, 250 lbs.

Catalog No.	Overall Length	Spacing Between Side Rails	Approx. Wt., Ea.
H4903M10	10'-1"	12"	16 lb.
H4903M12	12'-1"	12"	19 lb.



HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2358 June 2014



WARNING

Cover-up equipment, by necessity, is designed to be as universal as possible. Therefore it is possible, as examples, for (1) a tie wire to touch a potentially grounded pin or other part, (2) a person's hand to touch the conductor through an opening in the equipment, or (3) a part of a person's body or other work equipment to contact the conductor through an opening in the cover-up equipment or "in the vicinity of junctions between pieces of cover-up equipment." These possibilities, as well as other possible contacts, do exist, and the persons using this equipment must be aware of them and consider them on each and every application. Necessary precautions must be taken to prevent these contacts. Under no circumstances is Chance cover-up equipment intended to prevent mechanical equipment from contacting either energized or grounded surfaces.

Cover-Up Equipment

Features & Applications

- For all types of high-voltage line maintenance
- Most pieces can be installed with rubber gloves or hot stick application eyes
- Common sense rules must always be followed when using cover-up equipment, including:
- Cover-up equipment (such as line covers, insulator covers, cutout covers, and deadend covers) is intended to prevent personnel from making accidental brush contact with energized parts or equipment. Under no conditions should personnel purposely contact the covers, except with adequate rubber gloves, and personnel must always be aware of their position in order to avoid accidental contact with the cover
- Cover-up equipment (such as pole covers, crossarm guards, crossarm end covers, and pole top covers) is intended to help prevent accidental contact of energized tie wires or conductors with the grounded surface of the pole or crossarm
- Cover-up equipment must be handled with care to minimize breakage and scratching, and must be kept clean. Maintenance is as important with cover-up

- equipment as with other hot line tools. Each cover must be thoroughly inspected before each use to ensure that it has no cracks, deep scratches, or gouges and to ensure that it is clean. Cleaning should be done with a wiping cloth, and if that does not remove all dirt, mild soap and water should be used. Polyethylene covers can be cleaned with Chance Moisture-Eater II solvent-cleaner (see Catalog Section 2500). Caution: Solvents must be avoided unless the user can determine that the material in the particular cover is polyethylene
- 4. For Temporary Use Cover-up equipment is designed to be as light and easy to use as possible, hence it is not made from materials that can withstand extended periods of electrical stress. Therefore, Chance cover-up equipment must not be left installed for extended periods, especially if allowed to touch both an energized surface and a possibly grounded surface. The situation would be highly aggravated in rainy or humid weather, when the surfaces of the covers become dirty, etc. Therefore, the covers should be removed at the end of the workday, if possible

Cutout Covers 25 kV Phase-to-Phase

Features & Applications

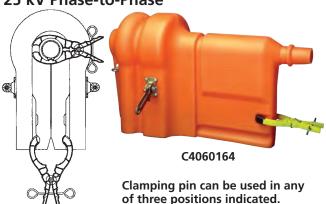
- Tested to ASTM F712
- Protects linemen working near most open-type cutouts rated at 25kV or under
- Will not fit over cutouts with linkbreak levers or similar devices
- Can be placed over the cutout
- Locking pin slips behind the cutout insulator over hanger bracket and into hole on opposite side of cover



- Eyes on cover and locking pin allow installation with a Grip-All clampstick
- Cover is made of orange high-impact ABS plastic
- Several units can be nested together for convenience and space saving on truck

Catalog No.	Description	Weight
C4060009	Cutout Cover with Locking Pin	4 lb./1.8 kg.

Deadend Covers 25 kV Phase-to-Phase



Features & Applications

- Made of orange linear polyethylene
- Fits over maximum of two 10" dia. deadend insulators
- End of cover will mate with Chance 25kV conductor covers or rubber line hose to extend protected area
- Measures 34"L, 11" W and 12-1/2" from conductor to unit bottom
- Split unit fits easily over the conductor and insulators
- Split unit can be tightly clamped together using large hot stick clamp pin, which is similar to those used in securing rubber blankets
- A Grip-All adapter (included) allows unit to be installed with a clampstick
- Can also be placed into position with rubber gloves and sleeves

Catalog No.	Description	Weight
C4060164	Deadend Cover	5 lb./2.3 kg.





Conductor and Insulator Covers

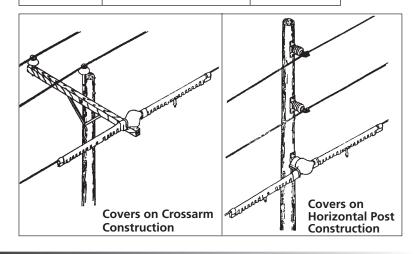
25 kV Phase-to-Phase (for 36.6 kV Phase-to-Phase conductor covers, see page 2405)

Features & Applications

- Tested to ASTM F712
- A versatile system of covering up a variety of configurations on distribution systems
- Conductor and insulator units mate together to cover pin-type or post-type insulator construction
- Can also be used with the deadend cover, shown on page 2402
- Units virtually surround hot parts and hardware to give linemen extra protection when rubber gloving or using hot sticks
- Covers will couple with major brands of rubber line hose and insulator covers of 25kV class
- Both covers are made of high-density, bright orange polyethylene
- Conductor covers are 5' long and are available with a Grip-All adapter for hot stick application or without adapter for rubber glove application
- Also available with 4' Epoxiglas® handles
- Maximum conductor size: 666 kcmil ACSR
- Insulator covers are 21" long and 8-1/2" wide
- Available in two heights: 6" and 9" from conductor to cover base to fit different size insulators
- For use with Grip-All adapter for hot stick application or without adapter for rubber glove application

Catalog No.	Description	Weight
C4060181	5' Conductor Cover with	5 lb./2.3 kg.
	4' Epoxiglas Handle	
P4060184	5' Conductor Cover with-	3 lb./1.4 kg.
	out Adapter or Handle	
C4060181GA	5' Conductor Cover with	4 lb./1.8 kg.
	Grip-All Adapter	
PSC4032879	Grip-All Adapter	1 lb./0.45 kg.
	Replacement Kit	
C4060182	Insulator Cover — 6"	3 lb./1.4 kg.
	with Grip-All Adapter	
P4060185	Insulator Cover — 6"	2 ¹ / ₂ lb./1.1 kg.
	without Grip-All Adapter	
	_	
C4060182L	Insulator Cover — 9"	4 lb./1.8 kg.
	with Grip-All Adapter	
P4060186	Insulator Cover — 9"	3 ¹ / ₂ lb./1.6 kg.

without Grip-All Adapter





C4060181GA with Grip-All Adapter

PSC4032879
Grip-All Adapter
Replacement Kit
as furnished on C4060181GA
and C4060514GA Conductor Covers
includes 2 Screws P0010740P and 1 each:
Bracket P4060196P, Adapter C4060040, Wing
Nut 055067P, Bolt 066713P.







C4060182 and C4060182L with Grip-All Adapter



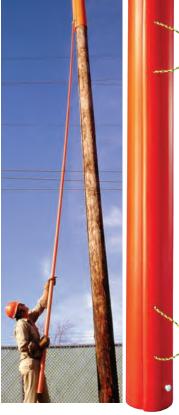
without Grip-All Adapter for rubber-glove application



CHANCE®

Pole Covers 36.6 kV Phase-to-Phase





Pole covers can be placed and removed easily from ground level using Chance telescoping tools.

Rope Lock Assembly

Features & Applications

- For securing pole covers on metal, concrete, composite or wood poles
- To help keep pole covers in place, especially on smooth surfaces



C4060547 Rope Lock Assembly

- Easy to place and remove
- May be applied midway and/or as a lower support for pole covers
- For use on 6", 9" or 12" diameter pole covers
- Instructions are included with each unit for simple installation by hand and removal from ground level with a hot stick

Cat. No.	Description	Weight
C4060547		1 ¹ / ₂ lb. / 0.75 kg.
C4060564	Replacement rope, 1/2" x 7 ft.	¹/₂ lb. / 0.25 kg.

Features & Applications

- Tested to ASTM F712
- Meet Class 4 requirements
- Protect personnel when raising or lowering a pole between energized lines
- Cover poles during rubber glove maintenance in confined areas
- High-dielectric linear polyethylene covers will not flash flame
- This material will have some softening without deformation at approximately 170°F, and it will resist brittleness at temperatures to -50°F
- All Chance pole covers are ribbed to reduce cover contact with the pole, thus minimizing creosote contamination
- Nylon button on 4' and 6' lengths allows pole covers to be joined together in tandem, where longer lengths are required
- Rope handles help to easily spread the covers and snap them around the pole (Rubber gloves must be worn during this procedure)
- Prolonged contact with an energized conductor must not be allowed
- Button-Nut Kit, T4060214

Catalog No.	Overall Length	Weight		
	6" Diameter Pole Covers			
C4060550	48" overall length	6 ¹ / ₂ lb. / 3 kg.		
C4060551	72" overall length	9 ¹ / ₂ lb. / 4 ¹ / ₂ kg.		
	9" Diameter Pole Covers			
M49371	12" long	2 ¹ / ₂ lb./1.1 kg.		
M49372	24" long	4 lb./1.8 kg.		
M49374	48" long	9 lb./4.1 kg.		
M49376	72" long	13 lb./5.9 kg.		
12" Diameter Pole Covers				
C4060029	24" long	5 ¹ / ₂ lb./2.5 kg.		
C4060030	48" long	11 lb./5.0 kg.		
C4060000	72" long	16 lb./7.2 kg.		







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2404 June 2014

Covers for Conductor, Insulators and Deadends

- 36.6 kV Phase-to-Phase ASTM Class 4
- Tested to ASTM F712

- Tested to ASTM F712
- Meet Class 4 requirements
- A versatile system of covering up a variety of configurations on distribution systems
- Conductor and insulator units mate together to cover pin-type or post-type insulator construction
- Units virtually surround hot parts and hardware to give linemen extra protection when rubber gloving or using
- Each item is fitted with an adapter for multi-position handling by Grip-All clampsticks
- These covers also couple with Chance 25 kV covers (catalog pages 2402 and 2403) and Classes 2, 3 and 4 of rubber line hose (pages 2410 and 2411)
- Covers also couple with major brands of rubber insulator hoods
- All covers are high-density, bright orange polyethylene in uniform wall thickness
- Excellent dielectric/puncture strength and perform well from -50° to 170°F
- Ultra-violet stabilizers in material help inhibit degradation as a result of atmospheric exposure
- Conductor cover is 5' long
- V-shaped cover's bottom edge makes it easy to install
- Four indented ribs along cover's top edge for air gap between conductor and cover
- Maximum conductor size is 666 kcmil ACSR
- Insulator covers come in two heights: Either 12" or 16-1/2" tall cover fits 6-1/2" to 9"-diameter pin or post
- Special slits in insulator covers help locate the conductor and hardware when installing covers

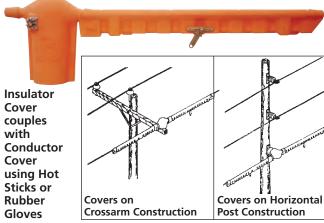


PSC4032879 **Grip-All Adapter** Replacement Kit

as furnished on C4060181GA and C4060514GA Conductor Covers includes 2 Screws P0010740P and 1 each: Bracket P4060196P, Adapter C4060040, Wing Nut 055067P, Bolt 066713P.



• Deadend cover fits three 10"-dia. porcelain bells or polymer deadend insulators and couples with line cover





To meet the Class 4 rating, the deadend cover must be used in conjunction with a rubber insulating blanket covering the coupler to the line cover. Failure to use a blanket to cover the coupler may result in electrical shock, severe injury or death by electrocution.

Catalog No.	Description	Weight
C4060514GA	5 ft. Conductor Cover	5 ¹ / ₄ lb./2.36 kg.

Conductor cover is 5 feet long and includes an adapter for handling by Grip-All clampsticks.

Maximum conductor size: 666 kcmil ACSR.

C4060557	12" Insulator Cover	3 lb./1.36 kg.
C4060557L	16 ¹ / ₂ " Insulator Cover	3 ¹ / ₂ lb./1.6 kg.

Insulator covers fit 61/2" to 9"-diameter pin or post insulators. Each cover includes an adapter for handling by Grip-All clampsticks.

C4060537	Deadend Cover	5 ¹ / ₄ lb./2.36 kg.
Doodond cover f	its three 10" diameter no	realain halle ar

Deadend cover fits three 10"-diameter porcelain bells or polymer deadend insulators and includes an adapter for handling by Grip-All clampsticks.

- To meet the Class 4 rating, deadend cover must be used in conjunction with a rubber insulating blanket covering the coupler to the line cover
- Failure to use a blanket to cover the coupler may result in electrical shock, severe injury or death by electrocution.

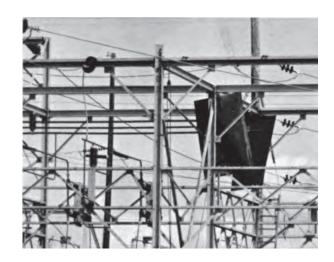


Substation and Underground Barriers

Features & Applications

- Tested to ASTM F712
- Same excellent quality bright-orange linear polyethylene material as used in many pieces of Chance cover-up equipment
- Available in 4' x 6' sheets for use in substations and as underground barriers
- Cutting smaller pieces is accomplished with any hand or power saw
- Form the sheets with a blow torch or in an oven heated to 250°F
- Although sheet becomes increasingly stiff as temperatures drop, it does not become brittle and break at -50°F
- Will not soften or deform at 170°F
- Material will not flash flame
- Puncture strength is 300 volts per mil.

Catalog No.	Description	Weight
C4060002	4 feet x 6 feet x 0.255"	30 lb./13.5 kg.



Insulator, Hardware, and Crossarm Covers

Pole Top Cover — 36.6 kV Ø-Ø

- Tested to ASTM F712
- Made of high-impact orange ABS plastic
- Helps prevent tie wires from contacting pole when tying/untying ridge construction
- Fits a pole top of up to 10" dia. with single- or double-ridge pin construction
- Maximum bolt length is 16"
- Rests on pole top, covering 10-1/2" of the pole top and 4-1/2" of ridge pin
- By using the elastic cord furnished with cover, cover-up can be butted against insulator to cover ridge pin and pole top

Catalog No.	Description	Weight
C4060097	Pole Top Cover	2 ¹ / ₂ lb./1.1 kg.

C4060097

Crossarm End Cover — 36.6 kV Ø-Ø

- Tested to ASTM F712
- Covers crossarm end to help prevent tie wires from contacting crossarm during tying/untying
- Helps prevent lineman from contacting a ground potential while in contact with conductor
- Fits over crossarm end up to 5" x 6" with either pin- or post-type insulator
- Made of ABS orange plastic
- Slots may be cut in each side to provide passage for double-arming bolts

C4060102	Crossarm End Cover	2 ¹ / ₂ lb./1.1 kg.

Post Insulator Covers — 46 kV Ø-Ø & 25 kV Ø-Ø

- Tested to ASTM F712
- Made of high-impact orange ABS plastic
- Split on each side forms a passage for the conductor
- Bottom portion of T-shape covers the insulator skirts
- Horizontal portion covers the conductor and hardware
- Horizontal portion is flared at each end to interlock with Chance 36.6 or 46kV spiral conductor covers (see page 2407)
- Larger cover may be used on vertical and horizontal 46kV tie top and clamp top post insulators and Epoxirod® standoffs, pole tops and bi-unit assemblies
- Not for rubber glove installation above 34.5 kV

C4060091	46kV Post Insulator Cover	31/2 lb./1.6 kg.
C4060092	25kV Post Insulator Cover	3 lb./1.4 kg.



C4060102



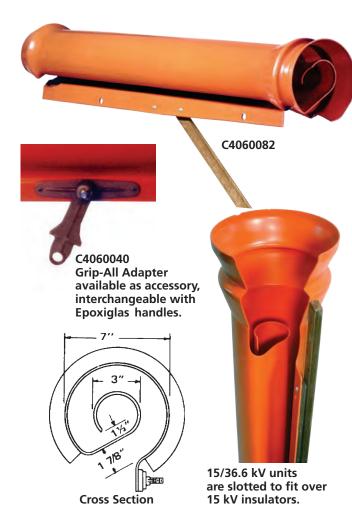
C4060091



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2406 June 2014





Spiral Conductor Covers 15/36.6 kV and 46 kV Phase-to-Phase Features & Applications

- Tested to ASTM F712
- 4' or 6' long retractable Epoxiglas® handle for easy installation from a bucket or platform, in single units or linked together
- Easy-to-install, bright-orange conductor cover
- Extra protection with a wide air space between two thicknesses of solid insulation
- Made of tough, durable ABS plastic
- Overall length of each cover is 53"
- All units can interlock with each other to make up a chain of guards
- 15/36.6 kV units are formed on the ends to fit over most 15kV insulators
- Eliminates the need for an insulator cover
- Each double-crossarm unit will fit over two 15kV pintype insulators

Catalog No.	Type of Fitting	Weight
	46 kV Ø-to-Ø Units	
C4060082	4' Epoxiglas handle	10 ¹ / ₂ lb./4.7 kg.
C40600826	6' Epoxiglas handle	11 ¹ / ₂ lb./5.2 kg.
C4060082GA	Grip-All Adapter	9 ¹ / ₂ lb./4.3 kg.

15/36.6 kV Ø-to-Ø Units for Single Crossarm

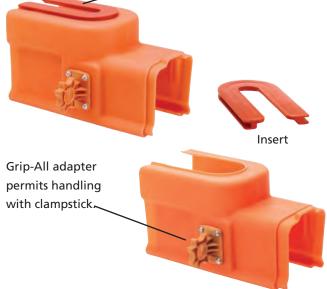
C4060083	4' Epoxiglas handle	9 ¹ / ₂ lb./4.1 kg.
C40600836	6' Epoxiglas handle	10 ¹ / ₂ lb./4.5 kg.
C4060083GA	Grip-All Adapter	8 ¹ / ₂ lb./3.6 kg.

15/36.6 kV Ø-to-Ø Units for Double Crossarm

C4060084	4' Epoxiglas handle	9	lb./4.1 kg.
C40600846	6' Epoxiglas handle	10	lb./4.5 kg.
C4060084GA	Grip-All Adapter	8	lb./3.6 kg.

Crossarm Cover Up

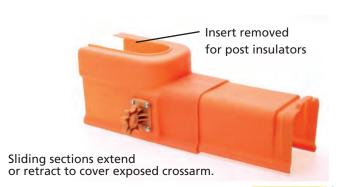
Insert in place for pin insulators



Catalog No.	Description	Weight
C4060504	Crossarm Cover Up	2¹/₄ lb. / 1 kg.

Features & Applications

- ASTM Class 3 for 26.4 kV phase-to-phase systems
- Telescopes to fit exact length requirements
- Fits onto wood or steel crossarm sizes up to 3-3/4" x 4-3/4" for energized line work
- Two-piece design telescopes from 13.1" to 20.9"
- Allows easy adjustment to various lengths
- With removable insert in place, gives desired close fit on pin insulator construction
- For the same type fit on post insulators, the insert simply is not used
- An external hotstick adapter on the cover allows easy placement and removal by a Grip-All clampstick from most access angles





CHANCE

Crossarm Cover 36.6 kV Phase-to-Phase Features & Applications

- Tested to ASTM F712
- Meets Class 4 requirements
- Helps prevent tie wires from contacting crossarm when tying/untying insulators
- Material used is the same high-dielectric polyethylene used for Chance conductor and insulator covers (shown below)
- Designed for single- or double- arm construction
- Slots provided for double-arming bolts
- Flanges above slots shield the ends of double-arming bolts

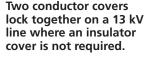




Catalog No.	Overall Length	Weight
M4933	Crossarm Cover, 24" Long	3 ¹ / ₄ lb/1.5 kg.

Conductor and Insulator Covers 46 kV Phase-to-Phase







Two conductor covers lock with insulator cover on middle conductor of 34.5 kV sub-transmission lines.

M4931 Conductor Cover C4060046 Insulator Cover

Features & Applications

- Made of high-dielectric polyethylene
- Wax-like surface provides natural self-cleaning action and resists effects of greases and other contaminants
- Bright-orange color gives visible warning to workers close to equipment
- Designed to help protect lineman while working close to energized conductors
- Rated phase-to-phase for voltages through 46 kV
- Can be easily installed with a Grip-All clampstick
- Clips on and covers conductors up to 1³/₄" in diameter
- A positive air gap is maintained by a special hanger system inside the cover
- Conductor is locked in the hanger by a swinging latch that can be opened and closed with a hot stick

- Insulator cover is designed to be used in conjunction with two conductor covers on insulators above 13 kV
- Fits over insulator and locks with a conductor cover on each end
- Polypropylene rope swings under the crossarm and hooks with a clampstick
- Helps to prevent insulator cover from dislodging due to bumping or wind gusts

Test Data

- Tested to ASTM F712
- Electrical: Tests using conductor covers in conjunction with insulator covers provided 46kV phase-to-phase protection for normal working conditions
- Temperature: Will not soften or deform at 170° F.
 Will not become brittle at -50° F

Catalog No.	Description	Capacity	Overall Length	Weight
M4931	Conductor Cover	Conductors through 13/4" diameter	5'	9¹/₄ lb./4.2 kg.
C4060046	*Insulator Cover Set	Insulators through 10 ¹ / ₂ " diameter	22" to 34"	11 lb./5.0 kg.

^{*}Consists of two pieces.





Rubber Insulating Blankets

Features & Applications

- Meet ASTM Standard Specification D1048
- For Class 4 Type II (ozone-resistant)

Performance-Designed Material

- Protect workers from accidental contact with energized components during line maintenance
- Made of ozone/corona-resistant elastomer
- Offer excellent performance properties with ASTM Standard Specification D1048
- Special formulation exhibits superior resistance to long-term aging/checking
- Will retain its high-visibility orange color

Versatile Protection, Maximum Rating

- Flexible to cover many irregular shapes
- Used with conductor covers (flexible or rigid) on deadends, apparatus, secondary racks, poletop pins and crossarms
- Blankets may be used in applications which require lower class or type
- Designed with perimeter eyelets to accept Chance button C4060532 and most other buttons existing in the field
- 1.5"-diameter center hole on slotted blankets will easily fit around common hardware

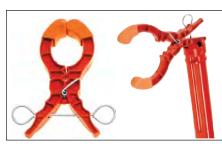
Ordering Information

- Class 4
- Proof Tested at 40kV AC rms
- Maximum Use: 36kV Ø-Ø



Solid Blankets

Catalog No.	Description	Weight
C4060346	36" x 36", 6 eyelets	8 ¹ / ₄ lb. (3.7 kg.)



Hot Stick Clamp
Catalog No.
C4060531
Eyes and special
handle shape for
easy placement
by clampstick



Rubber Glove
Clamp
Cat. No. C4060530
Special handle
shape also fits
clampstick for easy
placement



Slotted Blankets

Catalog No.	Description	Weight
C4060348	36" x 36", 28 eyelets	8 ¹ / ₄ lb. (3.7 kg.)

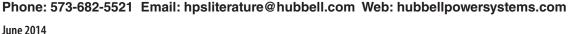
Accessories

Cat. No.	Description	Weight
C4060530	Clamp Pin, Rubber Glove	1 lb. (.45 kg.)
C4060531	Clamp Pin, Hot Stick	1 lb. (.45 kg.)
C4060532	Button, Rubber Blanket	¹ / ₈ lb. (.06 kg.)
C4032998	*Storage Cannister, no handle	6 lb. (2.7 kg.)
C4032999	*Storage Cannister w/handle	7 ⁵ / ₈ lb. (3.43 kg.)

*For details, see Catalog Section 2500.









Class 2 Rubber Insulating Blankets

Features & Applications

- Meet ASTM Standard Specification D1048
- For Class 2 (17kV Ø-Ø maximum use)
- Type I (non-ozone-resistant)

Performance-Designed Material

- Protect workers from accidental contact with energized components during line maintenance
- Made of natural rubber
- Offer excellent performance properties in accordance with ASTM Standard Specification D1048
- Special formulation will retain its excellent physical properties

Versatile Protection, Maximum Rating

- Flexible to cover many irregular shapes
- Used with conductor covers (flexible or rigid) on deadends, apparatus, secondary racks, poletop pins and crossarms
- Blankets may be used in applications through 17kV phase-to-phase maximum
- Designed with perimeter eyelets to accept Chance button C4060532 and most other buttons existing in the field
- For details on buttons, clamp pins and storage cannisters, see page 2409



Ordering Information

- Class 2Type I
- Proof Tested at 20kV AC rms
- Maximum Use: 17kV Ø-Ø

BLACK Solid Blankets

Catalog No.	Description	Weight
PSC4060607	36" x 36", 6 eyelets	6 ¹ / ₄ lb. (2.8 kg.)

Class 2 Flexible Rubber Cutout Cover

Features & Applications

- For use on Overhead Cutouts
- Conforms to ASTM D1049
- For Class 2 (17kV Ø-Ø maximum use)
- Type II (ozone resistant)



Catalog No.	Dimensions	Weight
PSC24CC	24" x 15" x 3.75"	7.0 lb.







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2410 June 2014



Short-Lip Flexible Line Hose

Features & Applications

- High-visibility orange color
- Choice of ratings and sizes: 17 kV, Class 2, 1-1/4"-dia., 26.5 kV, Class 3, 1-1/2" dia.

Low Weight, High Performance

- Much lighter in weight than other flexible dielectric cover-up
- Helps protect workers from accidental contact with conductors
- In accordance with ASTM D 1050-90, Chance ozone/ corona-resistant thermoplastic elastomer offers excellent performance properties
- Does not absorb water

Easy To Handle And Place

- Outer lip peels back with ease to open and start onto a conductor from either end
- With a push at the other end, full length slides on as lips zip closed around conductor
- To remove each piece, open one end and strip the remainder off the conductor

Excellent Color Retention

- Effectively retains original color
- Superior resistance to long-term ageing/checking







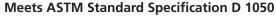
Serrated external ribs permit coupler to engage grooves inside long arm on flexible hoods made by others. Resilient lips overlap to surround conductor.

Parallel grooves inside coupler match and grip the 20 serrations (¼" each) in outside ribs. All serrated sections measure 5" long. Coupler overlaps 6" onto plain end.



Interchangeable with other flexible cover-up brands, Chance Line Hose also engages Chance rigid-type insulator hoods, deadend covers and lineguards (rated for 25kV phase-to-phase, see Catalog Pages 2402 and 2403).

Short-Lip Line Hose — Type III — Ozone-Resistant







ORANGE COLOR — Style A — Plain, Both Ends

ORANGE COLOR — Style B — Coupler, One End

Catalog No.	Length	Weight		Catalog No.	Length	Weight
11/	11/4" Inside Diameter — Max. Use Ø - Ø: 17 kV — Class 2, Proof Tested at 20 kV AC rms					AC rms
C4060294	3 ft.	2.27 lb./1.0 kg.		C4060304	3 ft.	3.17 lb./1.4 kg.
C4060295	4 ¹ / ₂ ft.	3.41 lb./1.6 kg.		C4060305	4 ¹ / ₂ ft.	4.31 lb./1.9 kg.
C4060296	6 ft.	4.55 lb./2.1 kg.		C4060306	6 ft.	5.44 lb./2.5 kg.
1 ¹ / ₂	11/2" Inside Diameter — Max. Use Ø - Ø: 26.5 kV — Class 3, Proof Tested at 30 kV AC rms				/ AC rms	
C4060297	3 ft.	3.11 lb./1.4 kg.		C4060307	3 ft.	4.09 lb./1.9 kg.
C4060298	4 ¹ / ₂ ft.	4.66 lb./2.1 kg.		C4060308	4 ¹ / ₂ ft.	5.64 lb./2.6 kg.
C4060299	6 ft.	6.22 lb./2.8 kg.		C4060309	6 ft.	7.2 lb./3.3 kg.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2412 June 2014

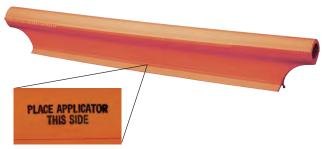


Extended-Lip Flexible Line Hose

36 kV, Class 4, 11/2"-diameter

Low Weight, High Performance

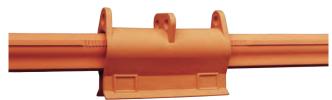
- As much as 25% lighter in weight than other Class 4 flexible cover-up
- Helps protect workers from accidental contact with conductors
- In accordance with ASTM D 1050-90, Chance ozone/ corona-resistant thermoplastic elastomer offers excellent performance properties
- · Retains high-visibility orange color
- Special formulation exhibits superior resistance to longterm aging/checking
- Does not absorb water
- Dielectric cover-up system consists of a separate coupler and three hose lengths
- This permits hoses to join to cover straight runs or to flex to fit contours at bends and angles
- Shorter sections may be cut on site from standard lengths to custom-fit taps, jumpers and like wires



For installation by hot-line tools, design provides a flat area debossed full length to accept special applicator tools (see Catalog Section 2100).

Easy To Handle And Place

- Rubber gloves or hot-line tools may be used to apply Chance Class 4 Line Hose
- · Lightweight, balanced material composition adds pliability
- Easy to put on, couple, relocate and remove, even when wearing leather protectors over rubber gloves
- Outer lip peels back with ease to open and start onto a conductor from either end
- · With a push at the other end, full length slides on as lips zip closed around conductor
- So hose can insert into coupler, Chance bevel-cuts the
- serrations on the side ribs
- · Vertical serrations resist withdrawal from the coupler • Two or more coupled sections stay joined when drawn
- along on the conductor and positioned as a unit Rubber-like material slides readily by hand yet resists creep or slippage when placed
- To remove each piece, open one end and strip remainder off conductor



Coupler also can join sections Chance 1½"-diameter short-lip Class 3 hose for 26.5 kV phase-to-phase maximum use.

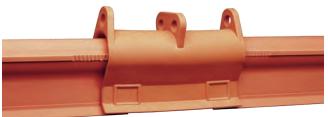
June 2014



Long lips provide flashover distance to permit use on systems through 36 kV phase-to-phase.



Interchangeable with other brands of extended-lip hose, Chance Class 4 flexible cover-up joins with separate coupler.



Parallel grooves inside the coupler match and grip the 28 serrations (1/4" each) in Class 4 hose ribs. All serrated sections on Class 4 hose measure 7 inches long. Coupler overlaps 51/4 inches onto hose when engaged.

Ordering Information Meets ASTM Standard Specification D 1050 for Type III — Ozone Resistant Class 4, Proof Tested at 40 kV AC rms Maximum Use, Phase-to-Phase: 36 kV



Hose — Style C - Plain, Both ends — 11/2" I.D.

Catalog No.	Length	Weight
C4060341	3 feet	4¹/₂ lb./2 kg.
C4060342	41/2 feet	6³/₄ lb./3 kg.
C4060343	6 feet	9 lb./4 kg.



Coupler

C4060340	10 ¹ / ₂ inches	1 ¹ / ₂ lb./0.7 kg.
----------	---------------------------------------	---

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2413

CHANCE®

Arc-Suppression Blankets

(Not Electrically Insulated)

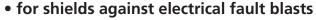
Heavy-Duty Protection In Lightweight Package

- Two synthetic fabrics are combined in the ArcSafe™
 Suppression Blanket from Workrite (Your Uniform for
 Life Company)
- Both space-age fabrics are aramid-fiber types
- Inner layer is Kevlar® and the outer is NOMEX® III
- Kevlar is the same aramid fiber used in combat helmets and body armor
- Flame-resistant NOMEX III is used as cover to protect Kevlar core from ultraviolet degradation
- Blankets consist of thin layers and offer unrivaled portability
- Extremely easy to maneuver in confined spaces
- Weigh only 1/5 lb. per square foot (5/8 kg. per m2)



Tested Successfully At 42,000 Amps Fault Current

- ArcSafe was subjected to fault-current testing at Chance laboratories
- ArcSafe was placed over a small section of 2/0 copper cable that was faulted to ground, simulating a cable or splice failure
- Maximum fault current generated was 42,432 amps for a duration of 13 cycles
- Other than black deposits, ArcSafe experienced no damage and provided total fault-blast containment





Applications and Conforming to OSHA Law

- When draped or loosely wrapped over a defective cable or splice, ArcSafe provides a protective shield for exposed workers
- Velcro® straps sewn on the back help keep ArcSafe where positioned
- ArcSafe blankets meet or exceed OSHA requirements for manhole protection
- Beginning in 1991, OSHA mandates that if cables in manholes appear defective "... and cannot be deenergized due to service load conditions, employees may enter the manhole provided they are protected from the possible effects of a failure by shields or other devices that are capable of containing the adverse effects of a fault in the joint." [29 CFR Part 1910.269(t)(7)]



ArcSafe™ Arc-Suppression Blankets

Catalog No.	Size	Weight
C4060452	4 ft. x 5 ft. (1.2 x 1.5 meters)	4 lb./1.8 kg.
C4060453	4 ft. x 8 ft. (1.2 x 2.4 meters)	6 ¹ / ₂ lb./2.9 kg.

Kevlar® and NOMEX® are DuPont registered trademarks for its aramid fibers. Only DuPont makes Kevlar and NOMEX.

Warning: The ArcSafe Suppression Blanket has been developed by leading industrial and safety engineers, and Workrite believes it to be the best available for its intended purpose. However, explosions and blasts due to electrical faulting may be erratic and unpredictable, and we do not claim that ArcSafe offers total protection. It improves the chances of a worker's survivability in a life-threatening incident. In addition, ArcSafe is NOT classified as "Electrically Insulated" and must NEVER be used as such. Before using this or any protective product, please avail yourself of all information concerning its use.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2414 June 2014



Overhead Switch Barrier

Cover all three phases

The Barrier Board is designed to cover all three phases of a 12kV or 25kV horizontal disconnect switch in a substation. The Barrier Board acts as a physical barrier between the open switch and the bus. It lifts easily with shotgun sticks for proper placement. The barrier covers the lower blade portion of the disconnect switch so that work can be performed on the bottom side of the switch.

Bag

Features

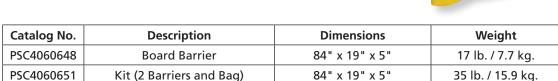
PSC4060650

- Designed to fit 12kV or 25kV disconnect switches
- Compatible with 30" and 36" spacing
 Puncture Strength 300 V/mil (approx .25 in thickness)
- Provided with Gripall adapters (2 positions)
- High visibility orange color
- Provided with yellow vinyl bag
- Available as individual item or 2 per kit





1 lb. / .45 kg.



86" with handles



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2415 June 2014

CHANCE®

Single-Range Units

- For convenience on different systems, toggle on dual-range units can switch calibration between two scales on meter face
- Can improve readability for low-end values on Hi scale
- Switched to Lo range, those values deflect needle more to give more finite readings
- To check instrument before and after each use, test-point jack in front of meter accepts plug from Phasing Meter Tester, next page





Duai-Ra

ters 5 & 16 kV Unit



For URD testing, see Hi-Pot Adapters (page 2458) and Adapters for Elbows and Bushings (page 2467).



Extension Resistors,

Phasing Testers

for †Distribution Circuits

Features & Applications

- Determine phase relationships and approximate voltage, line-to-line or line-to-ground
- Feature two fiberglass poles with end fittings threaded for interchangeable probes
- Probe fittings couple with a high-impedance component encased in each pole
- To complete test circuit, a 22 ft. length of insulated flexible cable stores on reel affixed to one pole and connects to voltmeter on other pole
- Simple to operate, tester poles first attach to two 6 ft. Epoxiglas® insulating universal handles (included in each kit for proper working clearances)
- Probes can be brought into contact with conductors appropriate for the meter to read phase-to-phase or phase-to-ground voltage

Distribution Phasing Testers Single-Range Units

Catalog No.	Description	Weight
H1876	†16 kV Tester Kit*	27½ lb./12.4 kg.
H18761	†16 kV Tester Hook Probes,	23 lb./10.4 kg.
	Case and Manual	
T4032261	25 kV Tester Kit*	27½ lb./12.4 kg.
H18767	40 kV Tester, Hook Probes, Case and Manual	23 lb./10.4 kg.
	case and manda.	

Dual-Range Units

T4030786	1 & †16 kV Tester Kit*	27½ lb./12.4 kg.
T4032311	5 & †16 kV Tester Kit*	27½ lb./12.4 kg.
T4032398	5 & †16 kV Tester Only	23 lb./10.4 kg.

*Each kit includes two 6' x 1-1/4"-dia. Epoxiglas® universal handles with storage bag, tester, hook probes, case and instruction manual

[†]To extend any Chance 16 kV Phasing Tester for 48 or 80 kV applications, optional Extension Resistors simply thread on in the field

Extension Resistors

H18762	Pair of Extension Resistors	6 lb./2.7 kg.
	for up to 80 kV (32" long)	
H18764	Pair of Extension Resistors	4 lb./1.8 kg.
	for up to 48 kV (21" long)	
P6242	Bag for 48 kV Resistors	1 lb./0.45 kg.
P6244	Bag for 80 kV Resistors	1¼ lb./0.56 kg.

Accessories

H17601	Universal Pole 11/4" x 6'	1¾ lb./0.7 kg.
	— Two Needed	
P6436	Bag for Two Poles	1 lb./0.45 kg.
H18763	Case only for Tester	2 lb./0.9 kg.
H18766P	Pigtail Hook Probe	1/4 lb./0.1 kg.
H18766S	Shepherd Hook Probe	1/4 lb./0.1 kg.
H18766	Straight Probe	1/8 lb./0.05 kg.
H18765	Angle Probe	1/8 lb./0.05 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2452 November 2013



Distribution Phasing Tester Kit

for Overhead and Underground Systems Dual Range: 5kV & 16kV Scales

Features & Applications

- Versatile for popular distribution voltages
- Facilitates testing both underground and overhead
- Basic functions include identifying phases and reading line-to-line or line-to-ground voltage
- URD accessories in the Kit also permit cable-fault detection
- Consists of high-impedance components encased in two fiberglass poles with threaded end fittings for overhead probes or URD adapters
- A 22 ft.-long cable connects to voltmeter pole and stores on reel pole



- To detect faults on URD cable, Hi-Pot Adapter converts AC source to DC pulse
- Effective field method quickly tests new, repaired or suspect spans



Complete Kit includes:

Two 6' x 1-1/4"-dia. Epoxiglas® universal handles with storage bag, tester with instruction manual and two probes (shepherd hook and pigtail hook) in padded carrying case, plus four items below

URD Accessories in Kit

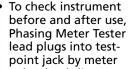


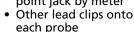


T4030857









- Switch on Meter Tester reverses polarity for thorough field-checking procedure
- Complete instructions included



Phasing Meter Tester (with battery) in Kit

C4030838

H17601 Hotstick P6436 Bag





Ordering Information

Catalog No.	Description	Weight
T4032557	Phasing Tester Kit with 16kV Hi-Pot Adapter, 2 URD Bushing Adapters, Phasing Meter Tester	31 ¹ / ₂ lb./14.2 kg.

- For convenience on different systems, toggle on meter housing can switch calibration between the two scales on meter face
- Improves readability for low-end values on the Hi (16 kV) scale
- Switched to Lo (5 kV) range, values deflect needle more to give more finite readings



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2453



Digital Phasing Testers

16kV and 40kV models, plus 80kV extensions

• For Overhead & Underground

Display With Backlight, Hold and Sleep Modes

- Large direct-reading display
- Determine phase relationships and approximate voltage, line-to-line or line-to-ground
- Each tester consists of two fiberglass poles with end fittings threaded for interchangeable probes
- Probe fittings couple with high-impedance component encased in each pole
- To complete the test circuit, a 22 ft. length of insulated flexible cable stores on the reel affixed to one pole and connects to electronic display module on other pole
- Simple to operate, tester attaches to two 6 ft. Epoxiglas® insulating universal handles (included in each kit for proper working clearances)
- Probes can be brought into contact with conductors for tester to display phase-to-phase or phase-toground voltage
- Pushbutton controls permit easy selection of options for display Backlight and Hold features
- When not in use, the unit's Sleep mode automatically conserves the battery

Hi-Pot & Higher Voltage Test Accessories

- For underground cable hi-pot testing
- 16 kV Kit C4033402 includes a DC Hi-Pot Adapter
- Hi-pot testing cannot be done with the 40 kV unit
- Both the 16 kV and 40 kV Kits include underground bushing and elbow adapters





Large direct display with backlight and hold features



16kV Digital Phasing Tester Basic Unit Cat. No. C4033369 (14 lb./6.36 kg.)

40kV Digital Phasing Tester Basic Unit Cat. No. C4033370 (14½ lb./6.6 kg.)
Hi-pot testing cannot be done with the 40kV unit.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2454 November 2013

Digital Phasing Testers



• For Overhead & Underground



Easy Verification Test

- To check instrument before and after use, Phasing Meter Tester lead plugs into test-point jack by meter
- Other lead clips onto each probe. Switch on Meter Tester
- Tester reverses polarity for thorough, easy field-checking procedure
- Complete instructions are included with each unit



Extension Resistors for 16kV Digital Phasing Tester		
H18762	Pair of Extension Resistors	6 lb./2.7 kg.
	for up to 80 kV (32" long)	
H18764	Pair of Extension Resistors	4 lb./1.8 kg.
	for up to 48 kV (21" long)	
P6242	Bag for 48 kV Resistors	1 lb./0.45 kg.
P6244	Bag for H1876-2 80 kV Resistors	1¼ lb./0.56 kg.
		_

100	Cat. No. C4033	Phasing Tester Kit $403 (21\frac{1}{2} lb./9.7 kg.)$ t be done with the $40kV$ unit.
e test		C4033370 Digital Phasing Tester
	T4030856 Elbow Adapter	Two T4030857 Bushing Adapters
1	Two H17601 6-ft. x 1¼"-dia. Epoxiglas® universal poles in P6436 Bag	C4030838 Phasing Meter Tester

Extension Resistors for 40kV Digital Phasing Tester		
C4033371	Pair of Extension Resistors	4 lb./1.8 kg.
	for up to 80 kV (21" long)	
P6242	Bag for C403-3371 80 kV Resistors	1 lb./0.45 kg.

NOTICE: Use ONLY the Extension Resistors specified for each Digital Phasing Tester as listed on this page.

Extension Resistors are NOT interchangeable between 16kV and 40kV Digital Phasing Testers.

Accessories

H18766S	Shepherd Hook Probe	1/4 lb./0.1 kg.
H18766	Straight Probe	1/8 lb./0.05 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



CHANCE®

Digital Phasing Testers for Transmission Circuits

• Two models for up to 120 kV or 240 kV

Features & Applications

- Easily determine phase relationships
- Read approximate voltage (line-to-line or line-toground) on transmission circuits
- Feature two high-impedance components encapsulated in fiberglass poles, each with an end fitting threaded for interchangeable hook probes
- 22-ft.-long insulated flexible cable from voltmeter stores on reel on other pole
- Two complete kits offer a choice of voltage ranges for specific system applications
- Each kit includes a pair of 1-1/2"-dia. insulated handles for proper working clearances
- Individual items listed in each kit's bill of materials may be ordered separately by reference numbers given

Ordering Information

Catalog No.	Description	Weight
PSC4033465	10 - 120 kV Phasing Tester Kit:	39 lb./17.7 kg.
	(1) Instruction Manual	
	(1) PSE4033454 Phasing Tester	22½ lb.
	(64" long)	
	(2) C4030459 Handles (96")	10 lb.
	(1) P6218 Bag for Handles (108")	3⅓ lb.
	(1) C4030460 Bag for Tester	211-
	(1) C4030460 Bag for Tester	3 lb.
PSC4033466	40 - 240 kV Phasing Tester Kit:	60 lb./27.2 kg.
PSC4033466	3	
PSC4033466	40 - 240 kV Phasing Tester Kit:	
PSC4033466	40 - 240 kV Phasing Tester Kit: (1) Instruction Manual	60 lb./27.2 kg.
PSC4033466	40 - 240 kV Phasing Tester Kit: (1) Instruction Manual (1) PSE4033455 Phasing Tester	60 lb./27.2 kg.
PSC4033466	40 - 240 kV Phasing Tester Kit: (1) Instruction Manual (1) PSE4033455 Phasing Tester (102" long)	60 lb./27.2 kg. 43½ lb.
PSC4033466	40 - 240 kV Phasing Tester Kit: (1) Instruction Manual (1) PSE4033455 Phasing Tester (102" long) (2) C4030459 Handles (96")	60 lb./27.2 kg. 43½ lb. 10 lb.

Phasing Meter Tester

for Digital Transmission Phasing Testers above

PSE4033473 **Phasing Meter Tester** for Digital Transmission **Phasing Testers**

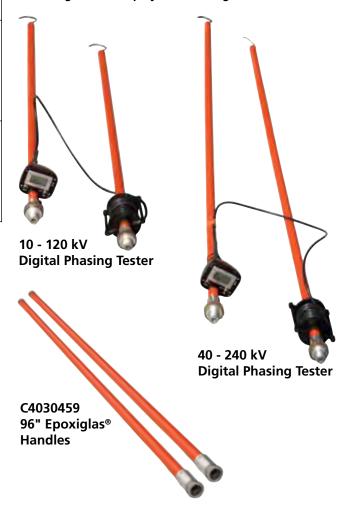


Features & Applications

- Allows line personnel to determine, in the field, the operating condition of Chance instruments above
- Uses each instrument's own meter to display its operating condition
- Tester plugs into jack on instrument
- Meter readings are noted when tester's clip is contacted to each of instrument's two terminals and tester's polarity switch is in both of its positions
- Instrument is in proper working order if all four readings are within two units
- Pulling plug from jack automatically disconnects tester's battery
- 9-volt battery, furnished, usually lasts one year and is easily replaced
- Tester's durable and compact fiberglass housing will withstand abuse of field applications



Large direct display with backlight and hold features



Catalog No.	Description	Weight
PSE4033473	Phasing Meter Tester with leads	1 lb./0.45 kg.
	and battery	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Analog Phasing Testers

Three kits for Transmission Circuits Features & Applications

- Determine phase relationships
- Read approximate voltage (line-to-line or line-toground) on transmission circuits
- Features high-impedance components encapsulated in fiberglass poles, each with an end fitting threaded for interchangeable hook probes
- 22' long insulated flexible cable from voltmeter stores on reel on other pole
- Three complete kits offer a choice of voltage ranges for specific system applications. Each kit includes a pair of 1-1/4"-dia. insulated handles for proper working clearances
- Individual items listed in each kit's bill of materials may be ordered separately by reference numbers given

Ordering Information

Catalog No.	Description	Weight
C4030457	69-120 kV Phasing Tester Kit:	39 lb./17.7 kg.
	(1) Instruction Manual	
	(1) E4030498 Tester (62" long)	22½ lb.
	(2) C4030459 Handles (96")	10 lb.
	(1) P6218 Bag for Handles (108")	3½ lb.
	(1) C4030460 Bag for Tester	3 lb.
C4030458	69-161 kV Phasing Tester Kit:	44 lb./20 kg.
	(1) Instruction Manual	
	(1) E4030499 Tester (75" long)	27½ lb.
	(2) C4030459 Handles (96")	10 lb.
	(1) P6218 Bag for Handles (108")	3½ lb.
	(1) C4030464 Bag for Tester	3 lb.
T4032781	69-240 kV Phasing Tester Kit:	60 lb./27.2 kg.
	(1) Instruction Manual	_
	(1) E4032780 Tester (98" long)	43½ lb.
	(2) C4030459 Handles (96")	10 lb.
	(1) P6218 Bag for Handles (108")	3½ lb.
	(1) C4030464 Bag for Tester	3 lb.

Phasing Meter Tester

for Phasing Testers* (page 2452-2455), Phase Rotation Testers (page 2459), and Energized Insulator Testers (page 2466).

Features & Applications

- Allows line personnel to determine, in the field, the operating condition of Chance instruments above
- Uses each instrument's own meter to display its operating condition
- Tester plugs into jack on instrument
- Meter readings are noted when tester's clip is contacted to each of instrument's two terminals and tester's polarity switch is in both of its positions
- Instrument is in proper working order if all four readings are within two units
- Pulling plug from jack automatically disconnects tester's battery
- 9-volt battery, furnished, usually lasts one year and is easily replaced
- Tester's durable and compact fiberglass housing will withstand abuse of field applications

Catalog No.	Description	Weight
C4030838	Tool with leads and battery	1 lb./0.45 kg.

^{*}Phasing Voltmeter Tester is designed for checking distributionseries voltmeters with extensions for 80 kV and below.













Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Two Kits for Transmission Circuits Digital Phasing Testers

Features & Applications

• With digital readout and hold function

Otherwise perform same functions as analog testers on page 2457

Description	Weight
10 - 120 kV Phasing Tester Kit: (1) Instruction Manual	40 lb./18.2 kg.
(1) PSE4033454 Phasing Tester (64" long)	22½ lb.
(2) C4030459 Handles (96")	10 lb.
(1) P6218 Bag for Handles (108")	3½ lb.
(1) C4030460 Bag for Tester	3 lb.
(1) PSE40333473 Meter Tester	1 lb.
40 - 240 kV Phasing Tester Kit:	61 lb./27.7 kg.
` '	
(1) PSE4033455 Phasing Tester (102" long)	43½ lb.
(2) C4030459 Handles (96")	10 lb.
(1) P6218 Bag for Handles (108")	3½ lb.
(1) C4030464 Bag for Tester	3 lb.
(1) PSE40333473 Meter Tester	1 lb.
	10 - 120 kV Phasing Tester Kit: (1) Instruction Manual (1) PSE4033454 Phasing Tester (64" long) (2) C4030459 Handles (96") (1) P6218 Bag for Handles (108") (1) C4030460 Bag for Tester (1) PSE40333473 Meter Tester 40 - 240 kV Phasing Tester Kit: (1) Instruction Manual (1) PSE4033455 Phasing Tester (102" long) (2) C4030459 Handles (96") (1) P6218 Bag for Handles (108") (1) C4030464 Bag for Tester

Phasing Meter Tester

for Digital Transmission Phasing Testers above **Features & Applications**

• Exclusively for use with only Digital Phasing Testers above

Otherwise the functional equivalent of Phasing Meter Tester on page 2457

> PSE4033473 **Phasing Meter Tester** for Digital Transmission **Phasing Testers**



D.C. Hi-Pot URD Test Adapters

Features & Applications

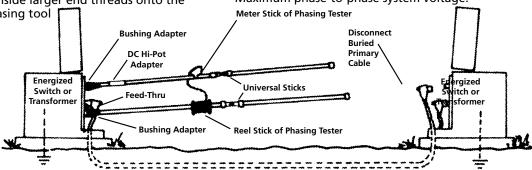
- Work with Chance Phasing Tool H1876 (page 2452) for metered readout
- For quick, reliable fault detection on underground cables
- Two units are available for phase-to-phase system voltages up to 16 kV or 35 kV
- By converting AC source voltage to a rectified halfwave, these adapters permit testing of cables with a potential level equal to peak source voltage
- Field-effective method proves especially beneficial for: o Testing new cable before initial energizing o Testing repaired cable before re-energizing o Testing suspect cable spans for faults
- Brass male fitting inside larger end threads onto the meter probe of phasing tool

- For testing and subsequent discharging, brass female fitting at smaller end accepts Chance Elbow Adapters or Bushing Adapters for 15 through 35 kV (page 2455)
- Illustrated instruction booklet is included
- Units contain high-voltage rectifiers encapsulated in Chance orange 1-1/4" and 1-1/2" dia. Epoxiglas® housings

Hi-Pot Adapters measure only 13" in length for 35 kV unit, and 10" for 16 kV unit, far right.

Catalog No.	Description	Weight, each
C4031762	*16 kV Hi-Pot Adapter	1 lb./0.45 kg.
C4031763	*35 kV Hi-Pot Adapter	1¼ lb./0.57 kg.

*Maximum phase-to-phase system voltage.



Phasing Tester

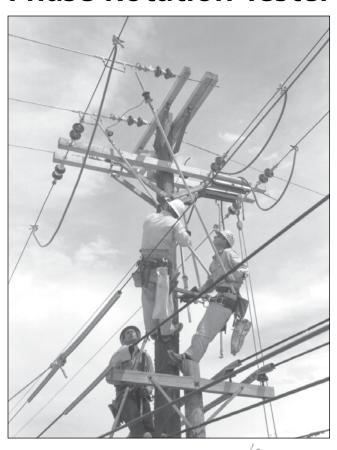


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2458 November 2013

Phase Rotation Tester





Features & Applications

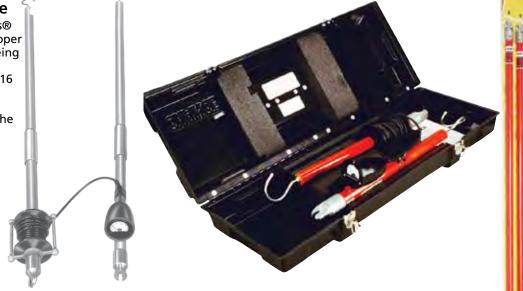
- To determine the correct phase-rotation relationship, this portable instrument features construction similar to Phasing Tester H18761, page 2452
- An additional grounding circuit on the Phase Rotation Tester sets it apart for phase rotation testing
- Tester consists of two fiberglass poles with end fittings threaded for interchangeable probes
- Probe fittings couple with a high-impedance component encased in each pole
- 22 ft. length of insulated cable stores on reel affixed to one pole and connects to voltmeter on other pole
- Grounding terminal below the meter permits connection to a known ground for proper operation
- To check instrument before and after each use, a test-point jack in front of meter accepts the plug from Phasing Meter Tester C4030838, shown on page 2457



Application Range

- Attaches to Epoxiglas®
 Universal Poles of proper length for voltage being worked

 Motor displays up to 16
- Meter displays up to 16 kV alone
- Can also read circuits through 80 kV with the thread-on Extension Resistors



Catalog No.	Description	Weight
H1879	Phase Rotation Tester, 16 kV, with Case	23 lb./10.4 kg.
H18762	Pair of Extension Resistors for through 80 kV, Length: 43"	6 lb./2.7 kg.
H18764	Pair of Extension Resistors for through 48 kV, Length: 25"	4 lb./1.8 kg.
H17601	Universal Pole, 1¼" x 6', Two Needed	1¾ lb./0.7 kg.
P6436	Bag for Two Universal Poles	1 lb./0.45 kg.
P6242	Bag for 48 kV Extension Resistors	1 lb./0.45 kg.
P6244	Bag for 80 kV Extension Resistors	1¼ lb./0.56 kg.
H18763	Carrying Case Only for Tester	2 lb./0.9 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com





Full Range (600V – 500kV) Auto-Ranging Voltage Indicator (ARVI)

Complies with OSHA 1910.269 to Test for Absence of Nominal Voltage • 600V to 500kV • For Overhead and URD Systems

Bright display lights indicate voltage class

This smart new-generation instrument makes hot-line voltage testing easier than ever. Its state-of-the-art electronics eliminate the need for a selector switch. Its automatic-ranging function quickly displays the approximate phase-to-phase voltage class. It provides an easy, reliable means for the operator to determine if a line is:

- a) De-energized, or
- b) Carrying less than normal system voltage from any source or induced charged from an adjacent live circuit, or
- c) Energized at full system voltage.

Simple to operate, the tester attaches to an Epoxiglas® insulating universal hot stick of appropriate length to maintain proper OSHA working clearances. A single pushbutton activates the instrument, then a single light indicates either Power On (by glowing solid) or Low Battery (by blinking). With a good battery condition, the instrument performs a confirming self-test by illuminating each of the 12 indicator lights in series while emitting an alternating audible signal.

Then the probe can be brought into contact with the conductor. It automatically begins detecting at approximately 100V and holds the display of one of these phase-to-phase voltage classes: 600V, 4kV, 15kV, 25kV, 35kV, 69kV, 115kV, 161kV, 230kV, 345kV or 500kV. The audible signal begins as a slow beeping that becomes faster as the reading is increased.

When not in use, the unit's energy-saving Sleep mode automatically conserves the battery.

Distribution / Transmission ARVI (Auto-Ranging Voltage Indicator) Cat. No. PSC4032915 (4½ lb./2.0 kg.)

Includes the tester unit, a shepherd hook probe, a straight probe, instruction manual and hard shell padded case.

Large easy-to-read display activates each red light, one at a time, beginning at the low end and finally holds on the light for the phase-to-phase voltage class detected.



This model adapts to both overhead lines as well as URD circuits with 200 and 600 Amp elbows, including those with and without capacitance test-points. Interchangeable probes and adapters just thread into the ARVI end fitting and test point (T.P.) setting appropriate to each application. Furnished owner's manual illustrates operating details for all models.

... continued on next page ...

Voltage Indicator Tester PSC4033582 MUST BE ORDERED AS A SEPARATE ITEM

Plug-in jack on Full-Range ARVI housing permits line personnel to quickly verify its operable condition with Voltage Indicator Tester (Cat. No. PSC4033582) before and after each use.

Accessories

H18766S	Shepherd Hook Probe	0.25 lb./0.1 kg.
H18766	Straight Probe	0.13 lb./0.05 kg.
T4030428	15kV only Bushing Adapter	0.5 lb./0.2 kg.
T4030856	15 - 35kV Elbow Adapter	1 lb./0.4 kg.
T4030857	15 - 35kV Bushing Adapter	1.6 lb./0.7 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2460 November 2013



Full Range (600V – 500kV) Auto-Ranging Voltage Indicator (ARVI)

This model is capable of these three test methods:

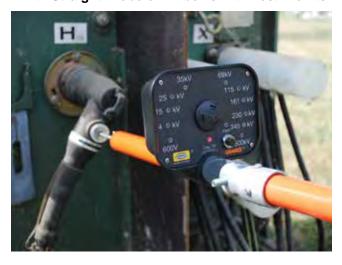
URD Voltage Presence Test with Bushing Adapter and your feed-thru device



Overhead Voltage Presence Test

with Shepherd Hook Probe

URD Capacitance Test with Straight Probe on Elbows with Test Points







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE

Distribution Auto-Ranging Voltage Indicator (ARVI)

Complies with OSHA 1910.269 to Test for Absence of Nominal Voltage

• 600V to 69kV • For Overhead & Underground

Bright Display Lights Indicate Voltage Class

- Makes hot-line voltage testing easier than ever
- State-of-the-art electronics eliminate need for selector
- · Automatic-ranging function quickly displays approximate line-to-line voltage class
- Provides easy, yet reliable means for operator to determine if a line is:
 - o De-energized, or
 - o Carrying less than normal system voltage from any source or induced charged from an adjacent live
 - o Energized at full system voltage
- Simple-to-operate tester attaches to an Epoxiglas® insulating universal handle of appropriate length to maintain proper OSHA working clearances
- Single pushbutton activates the instrument, then a single light indicates either Power On (by glowing solid) or Low Battery (by blinking)
- With good battery condition, instrument performs a confirming self-test
- It does this by illuminating each of the six indicator lights in series while emitting an alternating audible
- Then the probe can be brought into contact with the conductor
- It automatically begins detecting at approximately 480 Volts and holds display of one of these voltage classes: 600 V, 4 kV, 15 kV, 25 kV, 35 kV or 69 kV phase-to-
- Audible signal begins as a slow beeping, becoming faster as final reading is displayed
- · When not in use, unit's energy-saving Sleep mode automatically conserves battery

Overhead & Underground Capabilities

- For overhead testing, a Shepherd Hook probe is included with the Basic ARVI (Auto-Ranging Voltage Indicator)
- For underground testing, Elbow Adapter T4030856 and



Basic ARVI for Overhead Applications Catalog No. C4033374 (5½ lb./2.5 kg.)

Includes the tester unit, a shepherd hook probe, instruction manual and hard shell padded case.

Large easy-to-read display activates each red light, one at a time, beginning at the low end and finally holds on the light for the phase-to-phase voltage class detected.



Bushing Adapter T4030857 are included

They simply thread onto the ARVI in the field to check for voltage at switch bushings or elbows on cables, using a feed-thru device



for Overhead and Underground **Catalog No. T4033418** (161/4 lb./7.37 kg.) Includes the tester unit, shepherd hook probe, elbow adapter, bushing adapter, voltage indicator tester, instruction manual and hard shell padded case.

Accessories			
H18766S	Shepherd Hook Probe	⅓ lb./0.1 kg.	
H18766	Straight Probe	⅓ lb./0.05 kg.	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2462 November 2013

Transmission Auto-Ranging Voltage Indicator (ARVI)

Complies with OSHA 1910.269 to Test for Absence of Nominal Voltage
69kV to 500kV
For Overhead Conductors

Bright Display Lights Indicate Voltage Class

- Makes hot-line voltage testing easier than ever
- State-of-the-art electronics eliminate need for selector switch
- Automatic-ranging function quickly displays approximate line-to-line voltage class
- Provides easy, yet reliable means for operator to determine if a line is:
 - o De-energized, or
 - Carrying less than normal system voltage from any source or induced charged from an adjacent live circuit, or
 - o Energized at full system voltage
- Simple-to-operate tester attaches to an Epoxiglas® insulating universal handle of appropriate length to maintain proper OSHA working clearances
- Single pushbutton activates the instrument, then a single light indicates either Power On (by glowing solid) or Low Battery (by blinking)
- With good battery condition, instrument performs a confirming self-test
- It does this by illuminating each of the six indicator lights in series while emitting an alternating audible signal
- Then the probe can be brought into contact with the conductor
- It automatically begins detecting at approximately 69 kV and holds display of one of voltage classes: 69 kV, 115 kV, 161 kV, 230 kV, 345 kV or 500 kV phase-to-



(Auto-Ranging Voltage Indicator) Cat. No. C4033375 (5 $\frac{1}{2}$ lb./2.5 kg.)

November 2013

Includes the tester unit, a shepherd hook probe, instruction manual and hard shell padded case.

Large easy-to-read display activates each red light, one at a time, beginning at the low end and finally holds on the light for the phase-to-phase voltage class detected.



 Audible signal begins as a slow beeping, becoming faster as final reading is displayed

 When not in use, unit's energy-saving Sleep mode automatically conserves battery



Voltage Indicator Tester C4033431

MUST BE ORDERED AS A SEPARATE ITEM

Plug-in jack on Tester meter housing permits line personnel to quickly verify its operating condition with a Voltage Indicator Tester (Cat. No. C4033431) before and after each use.

Accessories

H18766S	Shepherd Hook Probe	1/4 lb./0.1 kg.
H18766	Straight Probe	½ lb./0.05 kg

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2463

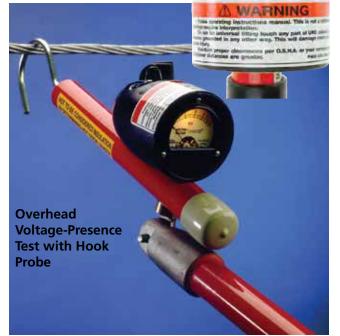
CHANCE Multi-Range Voltage Detector

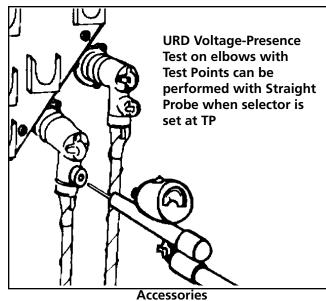
Lighted-dial model for systems through 40 kV











H18766S	Shepherd Hook Probe	½ lb./0.1 kg.
H18766	Straight Probe	1/8 lb./0.05 kg.

Easier-To-Read, illuminated Dial

- The lighted-dial option sets this unit apart from standard features on Multi-Range Voltage Detector (MRVD) C4030979, shown on next page
- A long-life bulb, powered by included internal battery, gives a glow to the meter face so scale is easy to read in most conditions
- To conserve the battery, a special switch locks the light off when not in use
- Spring-loaded toggle must be pulled up to move it over the stop between its on and off positions
- This helps keep switch from being flipped on accidentally while unit is not in use

Standard Features

- Confirms a line is de-energized prior to performing maintenance
- A field intensity meter, it is calibrated to read approximate line-to-line voltage when connected to any phase conductor
- Responds to magnitude of field gradient between its end probe and floating electrode (at the universal hotstickattachment fitting)
- If the universal fitting is close to a ground, another phase or another voltage source, reading should be high
- If it's close to a jumper or equipment of the same phase, the reading should be low
- Gives metered readout capable of distinguishing actual line voltage from static or feedover from an adjacent line
- Numerical readings can be compared with numerical rather than subjective judgments associated with "fuzz sticking" or "glow-detecting"
- Since it is not a voltmeter, no specific accuracy is claimed by the manufacturer or can be assumed by the user

Operation

- · Must be mounted on proper length hotstick for the voltage class involved
- Complete instructions are furnished with easy, illustrated step-by-step procedures
- Internal circuit and pushbutton permit check before and after each use to confirm operational condition of instrument and battery



- Straight probe for URD elbows with test points
- Hook probe for overhead uses
- Instructions and storage case

Catalog No.	Scale	Weight
T4033228	1 - 40 kV	5½ lb./2.5 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2464 November 2013

Multi-Range Voltage Detectors



for Overhead Systems to 600 kV and URD Elbow Test Points*

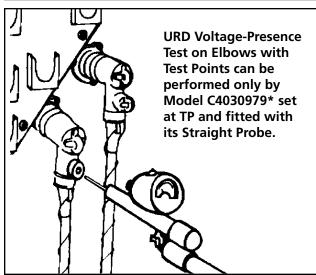




Overhead Voltage-Presence Test can be performed by all models.

Switch on C4030979* includes Test Point.





Design Features

- Confirms a line is de-energized prior to performing maintenance
- A field intensity meter, it is calibrated to read approximate line-to-line voltage when connected to any phase conductor
- Responds to magnitude of field gradient between its end probe and floating electrode (at the universal hotstickattachment fitting)
- If the universal fitting is close to a ground, another phase or another voltage source, reading should be high
- If it's close to a jumper or equipment of the same phase, the reading should be low
- Gives metered readout capable of distinguishing actual line voltage from static or feedover from an adjacent line
- Numerical readings can be compared with numerical rather than subjective judgments associated with "fuzz sticking" or "glow-detecting"
- Since it is not a voltmeter, no specific accuracy is claimed by the manufacturer or can be assumed by the user

Operation

- Must be mounted on proper length hotstick for the voltage class involved
- Complete instructions are furnished with easy, illustrated step-by-step procedures
- Internal circuit and pushbutton permit check before and after each use to confirm operational condition of instrument and battery



Ordering Information

Distribution and Transmission Multi-Range Voltage Detectors

Catalog No.	Scales	Weight
C4030979*	1 - 40 kV	5½ lb./2.5 kg.
C4031029	16 - 161 kV	5½ lb./2.5 kg.
C4031140	69 - 600 kV	5½ lb./2.5 kg.

*For testing URD elbows with test points, only model C4030979 on this page includes straight probe and "TP" setting on selector switch (as well as hook probe for overhead uses).

For other URD models and Accessories, see next page.

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE®

Multi-Range Voltage Detectors

for Overhead & URD Systems to 40 kV

Features & Applications

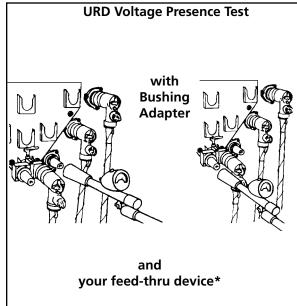
- Test both overhead and underground distribution systems
- For systems in voltage classes from 5 through 40 kV
- Provide easy, yet reliable means for operator to determine if a line is:
 - o De-energized, or
 - Carrying less than normal system voltage from any source or induced charged from an adjacent live circuit, or
 - o Energized at full system voltage
- Adapt to both overhead lines as well as URD circuits with 200 and 600 Amp loadbreak elbows
- This includes those with and without capacitance testpoints
- Interchangeable probes and adapters
- Thread into the MRVD end fitting and the selector switch dials to the voltage range or test point (T.P.) setting appropriate to each application
- Furnished owner's manual illustrates operating details for all models.

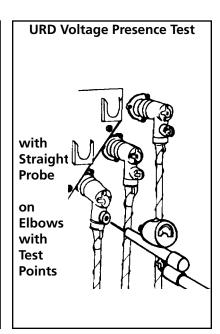


T4032271 for Overhead and for URD Loadbreak Elbows

This model is capable of these three tests:







*Elbow Adapter also furnished to complete test when not using a feed-thru bushing device.

Ordering Information

5-15-25-40 kV Multi-Range Voltage Detector with TP Setting for Test Point on URD Elbows

Catalog No.	Description	Weight
T4032271	MRVD, Hook & Straight Probes, Elbows & Bushing Adapters, Case	6 lb./2.7 kg.

Accessories

H18766S	Shepherd Hook Probe	1/4 lb./0.1 kg.
H18766	Straight Probe	1/ ₈ lb./0.05 kg.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2466 November 2013



Digital Voltage Indicators

for Distribution and Transmission Systems

Calibrated to read approximate phase-to-phase voltage

Features & Applications

- As tools for linework, apply to most system voltages
- Distribution DVI provides 1 to 40 kV readouts
- Transmission DVI covers 16 to 161 kV
- For overhead applications, hooked probe hangs onto conductor or apparatus
- For underground systems, Distribution DVI can indicate voltage at elbow test points or through bushings and
- For such uses as confirming a "dead" condition before placing temporary grounds for de-energized
- Both models provide an easy, yet reliable, means to determine if a line is:
 - o De-energized, or
 - o Carrying less than normal system voltage from any source or induced charge from an adjacent live circuit, or
 - o Energized at full system voltage

Features & Applications

- Simply by selecting "Peak Hold," DVI will retain the display of its approximate highest reading for 10 to 15
- Built-in self-test function allows for quick check of meter before and after each use



Ordering Information 1 to 40 kV Distribution DVI model includes both types of probe (hook for overhead lines and straight for underground test points).

> 16 to 161 kV Transmission DVI model includes only the hook probe

Both models include a 9-volt battery, carrying case and illustrated operating instructions.

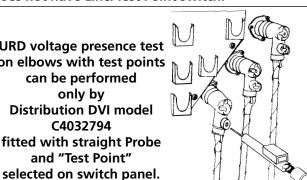
Catalog No.	Description	Kit Weight
C4032794	1 - 40kV Voltage Indicator	7¾ lb./3.5 kg.
C4032588	16 - 161kV Voltage Indicator	7½ lb./3.375 kg.





URD voltage presence test on cable with elbow placed on a feed-thru device can be performed by DVI fitted with Bushing Adapter T4030857. For this test, "Line" must be selected on switch panel of Distribution DVI model. Transmission DVI model does not have Line/Test Point switch.

URD voltage presence test on elbows with test points can be performed only by **Distribution DVI model** C4032794 fitted with straight Probe and "Test Point"



Accessories		
H18766S	Shepherd Hook Probe	1/4 lb./0.1 kg.
H18766	Straight Probe	⅓ lb./0.05 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE®

Super Tester Voltage Detector

• Dual Range • Audible & Visible Indicators

Features & Applications

- Lights blink and alarm sounds when placed in electrostatic field above trigger threshold
- Five flashing red lights alert the operator
- High-pitched tones also signal nearby personnel of present voltage that could be dangerous when applying temporary grounds or performing maintenance
- Can be used to check overhead lines, in substations and around switchgear
- Simply slips over the head of a standard 1-1/4"-diameter disconnect stick
- May be used on a Chance Grip-All clampstick, universal, telescoping or positive-grip hot line stick fitted with a special adapter (see table below)

Design Features

- Handy three-way switch permits selection of either the 1 100 kV or the 100 - 800 kV range for circuit being tested
- Turns off unit to save the battery when not in use
- 9-Volt alkaline battery readily installs by removing two knurl-head screws and sliding off the instrument cover
- Test button checks both the battery and the tester
- Depressing button activates signal circuits, sounding the tone and lighting the alarm lamps if the battery is good and unit operable
- Comes with instructions packed in lined, reinforced case with carrying handle

Operation

- Turn on tester with selector switch for voltage range required
- Check battery and unit by pushing "Test" button
- If tone volume is not clear or indicator lights are not bright, replace battery and recheck
- Mount tester on proper hot line tool
- For maximum-strength signals, place the tester within following minimum proximity to the circuit being tested

Phase-to-Phase versus Response Distance

kV	(1 - 100kV Range)	(100 - 800kV Range)
	Distance - inches	Distance - inches
2.0.	0	
13.8.	4	
25.0.	12	
34.5.	19	1
69	39	3
115		7
161		10
230		20
345		26
525		44

Note: Super Tester will not detect any voltage on cable with metallic sheath or semiconductive coating. Super Tester does not discriminate between induced and line voltage types. Device signals in the presence of either and the operator must determine which type before following utility safety working practices for engaging energized conductors.

WARNING: Instrument damaged by touching 33kV or higher.





Ordering Information

Catalog No.	Description	Weight
H1990ST	Super Tester, battery, plastic case	4¾ lb./2.1 kg.
M445598	Super Tester Adapter for Grip-	5 oz./0.14 kg.
(Catalog	All, Universal, Telescoping or	
Section 2100)	Positive-Grip hot line tools	





M445598 Adapter fits into Super Tester either way so you can use it on a Grip-All clampstick or on a splined fitting of Universal, Telescoping or Positive-Grip hot line sticks.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2468 November 2013

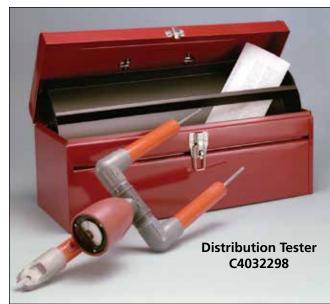
Energized Insulator Testers

CHANCE

for Distribution and Transmission Systems







Operation

- Sensitive voltmeter measures difference in potential across each insulator in a suspect string
- Comparative readings from satisfactory strings in same operating situation quickly indicate the state of every insulator in the string being tested
- Meter places minimal load on the phase as it requires only a small leakage current to make a reading
- Two straight steel probes threaded into the tester forks simply contact the metal fittings on both ends of each insulator at the same time
- Mounted on a 1-1/4"-dia. Epoxiglas® pole with a universal fitting
- Before each use the tester should be attached to the proper length hot stick for the system voltage involved
- Distribution model's scale reads up to 11 kV
- Transmission model's scale reads a maximum of 16 kV

Applications

- Without interrupting service, one of these testers quickly can check the condition of each insulator in a string
- Greatly reduces maintenance costs
- Only insulators identified as damaged require replacements
- No need to change entire strings
- Available in two models
- Testers serve specific applications:
 - o Deadend insulators on distribution systems through 35 kV
 - o Suspension insulators on 44 kV through 500 kV transmission systems



Plug-in jack on Insulator Tester meter housing permits line personnel to quickly verify its operable condition with a Phasing Voltmeter Tester (Cat. No. C4030838) before and after each use.

Energized Insulator Testers (each includes instrument, two straight probes, operating instructions and metal carrying case)

Catalog No.	System Applications	Weight
C4032298	Distribution (thru 35 kV)	4 lb./1.8 kg.
C4032299	Transmission (44 thru 500 kV)	5 lb./2.25 kg.

^{*}Carrying case weighs additional 101/4 lb. (4.62 kg.)

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE®

Voltage Tester for Underground Transformers



Features & Applications

- Portable device checks the AC voltages on Underground Distribution circuits through 20 kV
- Determines approximate line-to-ground voltage of the circuits
- Basic instrument, C4031369, reads voltages up to 10 kV on meter
- Resistance units are encapsulated in an epoxy compound to protect against mechanical damage
- Prevents moisture penetration or accumulation around resistors
- No calibration is required tool is preset at the factory
- Extension resistor is provided for voltages above 10 kV phase-to-ground. This increases voltage range to 20 kV phase-to-ground.
- Do not use more than one extension resistor element per tool
- Ground connection is made to a stud on the stick below the meter housing
- This stud MUST be electrically connected to a good ground source
- Before the Voltage Tester is used to test elbows or bushings on dead front URD equipment, proper adapter must be attached to tool
- Elbow must be controlled or restrained with an insulated hot stick while using Voltage Tester to check elbows
- Elbow must be properly parked when bushing is being checked



and after each use, test-point jack in front of meter accepts plug-in lead of Voltmeter Tester (see page 2453).







Elbow Adapter T4030602 Bushing Adapter T4030428

Adapters for 15 kV only



Elbow Adapter T4030856 Bushing Adapter T4030857



Adapters for 15, 25 and 35 kV only

Catalog No.	Description
C4031367	Complete Voltage Tester for 20 kV Ø-G includes Tester, Extension Resistor, Case and Instruction Booklet
C4031368	1 Extension Resistor
C4031369	Voltage Indicator 10 kV Ø-G with Case and Instruction Booklet
T4030602	Elbow Adapter for 8.3/15 kV only
T4030428	Bushing Adapter for 8.3/15 kV only
T4030856	Elbow Adapter for 15, 25 & 35 kV
T4030857	Bushing Adapter for 15, 25 & 35 kV
C4030838	Tool with Leads and Battery

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2470 November 2013

Energized Cable Sensor

Features & Applications

- Allows lineman to determine whether URD cable is energized or de-energized
- Amplifier is designed to give a meter reading
- This occurs when small AC voltage between the semiconductive sheath and the concentric neutral of the energized URD cable is applied to test probe
- Amplifier is housed in a rugged thermoplastic case



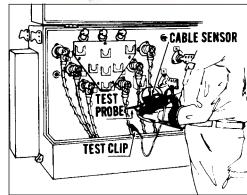
- · Self-test contact point is located on top of amplifier
- Check meter operation and battery condition by touching test probe to test point











- · Sensor checks energized condition on concentricneutral cable below an elbow without test points (as above)
- At cable mid-span (left), hose clamps bridge all strands of concentric neutral at the test location
- Sensor's neutral lead clips to one of the hose clamps
- Tip on probe lead contacts semi-conductive cable sheath to test voltage

Catalog No.	Description	Weight
C4030803	URD Cable Sensor, two leads, two hose clamps, two 9-volt batteries and instructions	5 lb./2.3 kg.

Dielectric Compound No. 7

Dielectric Compound No. 7, a silicone base material, is made for use with load break disconnects and other electrical connecting and terminating devices.

Cat. No. C4170287...... 2 oz. Tube

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

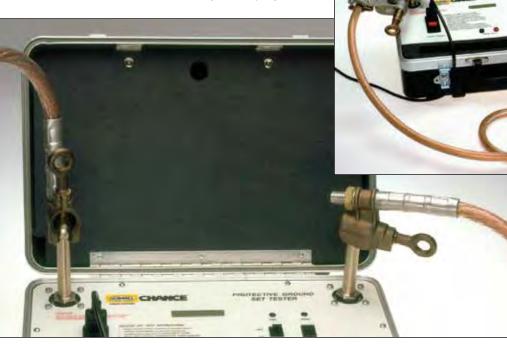


Protective-Grounding-Set Tester

- Meets ASTM Standard F 2249
- Offers easy, accurate diagnostics

Self-Contained, Portable Convenience

- Used to check resistance in protective grounding sets
- 120 VAC and 230 VAC models available
- Applies Direct Current across the test specimen
- Seven-minute video, included with each unit, shows how to use tester
- Instruction manual includes procedure details
- All components store in tester's integral carrying case



Simple, One-Button Testing

- Digital display shows the resistance measured in milliohm
- This is compared with a preset threshold for the size grounding cable selected (#2, 1/0, 2/0 or 4/0)
- Green "Pass" or red "Fail" light also indicates test results
- Factory preset at 100 Volts
- User can easily change the Tester's basis for voltage allowed
- Adjusting this limit automatically causes a corresponding shift in resistance thresholds for all grounding cable sizes
- Regardless of the voltage-allowed setting or cable size selected, the Tester displays resistance of each specimen in milliohms
- Resistance displayed with ±1% accuracy, from 1 microohm to 6.5 ohms
- Utility must establish maximum resistance allowed for protective grounding sets used on each specific area of systems
- How the utility calculates these values depends on several factors outlined in the Tester instructions
- Sample calculations with reference tables and charts are in manual

Troubleshooting Mode

- If a ground set does not pass initial test, Tester can help isolate problems
- High-resistance source can often be remedied by simple repairs to cable set
- Retesting then can quickly verify the effects of repairs
- For troubleshooting mode, test probes are furnished to plug into the Tester
- A switch activates them instead of ball-stud terminals
- Probes are used to test across each contact interface in ground set
- Results display in milliohms, just as in the first test mode

Optional Terminals For Special Ground Sets

- Standard ball-stud terminals accept most types of ground clamps, including Chance ball-socket clamps.
- To test special-application grounding sets for underground-distribution transformers or switchgear, two optional adapters shown are available as separate items



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2472 November 2013



Protective-Grounding-Set Tester (continued)

- For easy, accurate diagnostics
- Meets ASTM Standard F 2249



Optional Straight Stud Terminal T4033159 for testing grounded-parking-stand temporary grounding sets.



Optional Elbow Adapter C4033449 (15 & 25kV) for testing temporary grounding sets fitted with a grounding elbow. PSC4032947, 35kV, Elbow Adapter.

Included with each

Protective-Grounding-Set Tester:

- Self-contained carry case
- 2 ball-stud terminals
- DVD demonstration video
- 2 troubleshooting probes
- Self-test cable

Catalog No. Description		Weight
C4022220	115/120-Volt Protective	17 lb /7 CF lcs
C4033220	Ground-Set Tester	17 lb./7.65 kg
PSC4033220001	230-Volt Protective	17 lb./7.65 kg.
F 3C4033220001	Ground-Set Tester	17 1b./7.03 kg.

Optional Adapters:

T4033159	Straight Stud Terminal	3/4 lb./0.225 kg.
	for 15 and 25 kV	
C4033449	Elbow Adapter 15/25kV	1 lb./0.45 kg.
PSC4032947	Elbow Adapter 35kV	1 ¹ / ₄ lb./0.6 kg.





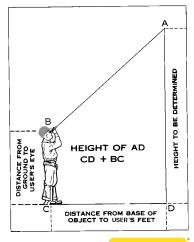
Chance Teleheight

Features & Applications

- Quickly and accurately figures pole, tree, or building heights or conductor clearance
- Easy to operate only take a few minutes to learn
- Diagram shows how it works
- Sight point A and move backward or forward until the bubble centers on the hair line, which is point C
- Measure distance from C to D and add distance BC to find correct height
- Leather case (2-1/4" x 4-1/4") has belt loop

Catalog No.	Description	Weight
CW	Teleheight Complete	1¼ lb./.6 kg.
	w/Leather Case	







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



LoadLooker Ammeter

- Models for Distribution, Transmission and Substation uses
- Hold feature for easy hotstick use

User-Friendly Electronic-Loop Design

- Electronically closes loop
- No more manipulating a hinged or clamp-type inductive pick-up
- Unique U-shape jaw senses amperage present between tines
- Open-end design for checking component loads not accessible by other hot-line ammeters

Live-Line-Ready Hotstick Mount

- Standard fitting mounts on your insulated hotsticks
- Fits the same as any other universal tool
- Your hot-line crews can begin using it immediately

... continued on next page ...





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2474 November 2013



LoadLooker Ammeter

Simple Pushbutton Operation, Direct-Reading Accuracy

- Push it once to turn on LoadLooker
- Push it a second time and LoadLooker will display the word HOLD
- Will continue to display the next reading it "sees" until you push the button to clear
- This lets you bring it down from the line to eye level to read it
- After five idle minutes, unit will turn itself off
- You can also manually turn it off by keeping the button depressed for five seconds
- Operator's Manual and storage case are included

Rugged, Application-Specific Design

- Materials and construction are designed for fieldcondition rigors
- Typical applications include:
 - o identifying load imbalances
 - o Verifying accuracy of current transformers
 - o Determining load to select properly sized jumpers
 - o Measuring load before opening switches



LCD 3½-digit display of

Amps, Hold, Low Battery

Battery 9 volt alkaline (included)

Accuracy ±1% +2 Digits

Frequency 50 or 60 Hertz

Operating Temperature -30° to 60° C (-22° to 140° F)

Display Range Automatic Ranging:

0 - 99.9 Amperes, in 0.1-Amp increments. 100 - 1999 Amperes, in 1.0-Amp increments. 2000-5000 Amperes, in 0.1kA Amp increments.

Operators Manual and Case included





Ordering Information

60 Hertz unit, Case and Operators Manual

Catalog No.	Max. Voltage (Ø-Ø)	Max. Current	Reading Type	Jaw Size	Weight
MEAMP11RW	Up to 69 kV	Up to 2,000 amps	True RMS	3.86"	3.1 lb. / 1.41 kg.
MEAMP21RW	Up to 400kV	Up to 2,000 amps	True RMS	3.86"	3.1 lb. / 1.41 kg.
MEAMP32RN	Up to 500kV	Up to 5,000 amps	True RMS	2.50"	3.1 lb. / 1.41 kg.

50 Hertz unit, Case and Operators Manual

MEAMP32RN2	Up to 500kV	Up to 5,000 amps	True RMS	2.50"	3.1 lb. / 1.41 kg.
------------	-------------	------------------	----------	-------	--------------------

Replacement Case

Catalog No.	Description	Weight
C4002561	Hard Case for LoadLooker Ammeter	2.5 lb. / 1.13 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



CHANCE®

Wet/Dry Hot Stick Tester for easy, portable compliance with industry standards

New Controls & Meter for All Requirements

- Simple to operate, portable unit
- Makes easy work of testing insulated live-line tools
- Wet and dry modes selected by a toggle switch
- Follows procedures specified by ASTM, IEEE and OSHA
- Graduated meter gives precise readout of each tool's leakage current

Portable Operating Ease

 For testing any length fiberglass-reinforced plastic (FRP) hot stick up to 3" in dia.



- For spot checks at field jobsites or periodic diagnostics in workshop
- Full-scale test setups for both Wet (75 kV-per-foot) and Dry (100 kV-per-foot)
- Compact, self-contained unit easily carried and operated by one person
- In Setup procedure before each use, a zeroing knob is used to set meter to zero without a tool in the tester
- Furnished Check Bar serves as self-check to ensure tester is functional
- Included video demonstrates "how-to" basics for Setup, Dry and Wet tests
- Owners Manual must be read and understood before operating tester



Ordering Information

Included with each Tester:

- Check bar Owners operating instruction manual
- Demonstration video
 Carrying case

Catalog No.	Wet/Dry Hot Stick Tester	Weight
C4033178	115-volt model	20 lb./9.0 kg.
C4033179	*230-volt model	20 lb./9.0 kg.

^{*}Power-source cord does not include plug on 230-volt model



Ouantitative Test Results

- When placed on tool, displays any increase in leakage current due to hotstick
- Gives immediate indication of stick's true leakage condition, independent of stray currents (through the air, internal to testers, etc.) zeroed out in advance
- Detects leakage currents due to surface contamination, internal moisture and such internal conductive materials as carbon tracks







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2476 November 2013

 \Box

Ladder Monitor Kit



for EHV Microamp Measurement on Barehand Equipment

Features & Applications

- Used with EHV Barehand maintenance to detect microamp leakage on a ladder
- Meter is connected to ladder and takes readings when ladder is in contact with conductor
- Recommended that readings be taken periodically to ensure optimal working conditions which could be altered by change in atmosphere
- Kit includes:
 - o 200 micro-amp scale microammeter
 - o Three clamps to effect use on a three-rail ladder
 - o Cable with clips and adapter to establish contact
 - o Bracket to ground and hold meter on structure
 - o Two dry cell batteries
 - o Instruction drawings for field assembly
 - o Operating instructions

Catalog No.	Description	Weight
C4020288	Ladder Monitor Kit	7.5 lb./3.4 kg.

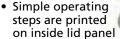
Chance Sentinel Leakage-Current Monitor

- Alerts utility-line workers of overcurrent conditions
- For such aerial devices as insulated ladders and truck booms
- Sounds an alarm if leakage current reaches a pre-set level
- Leakage setting adjusts from 1 to 1,000 microamperes in resolution increments of 0.1 microamp
- Audible warning eliminates need to watch the actual current level, continuously displayed on digital LCD screen
- Alarm sounds immediately upon overcurrent and continues until the condition is corrected
- Instrument panel jack accepts a standard 1/4" twoconductor phone plug to also trigger a truck horn or other external alarm
- Panel test terminal permits a simple continuity check of the monitor leads prior to each operation

Catalog No.	Description	Weight
C4070025	Chance Sentinel Kit	9 lb./4.05 kg.







- · Detailed instruction sheet included
- Kit includes one coaxial cable and battery, two jumpers and three hose clamps for connections to two- or three-rail ladders
- Brackets on box secure to an earth-grounded structure up to 5/8" thick such as a transmission tower

Truck Boom Leakage-Current Monitor

- Mounts on truck body and hardwires into truck's 12-Volt system, which eliminates battery changeout
- Sounds an alarm if leakage current reaches a pre-set level
- Alerts utility-line workers of overcurrent conditions on truck booms
- Leakage setting adjusts from 1 to 1,000 microamperes in resolution increments of 0.1 microamp
- Audible warning eliminates need to watch the actual current level, continuously displayed on digital LCD screen
- Alarm sounds immediately upon overcurrent and continues until the condition is corrected
- Instrument panel jack accepts a standard 1/4" twoconductor phone plug to also trigger a truck horn or other external alarm
- Panel test terminal permits a simple continuity check of

	The state of the s	,
Catalog No.	Description	Weight
T4070327	Boom Monitor Kit (12 Volt)	14 lb./6.4 kg.

- the monitor leads prior to each operation
- Before use, instrument automatically performs a rapid electronic self-test
- Simple operating steps are printed on the inside lid panel
- Detailed instruction sheet included



Mounting studs on steel box bond directly to truck body.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Care, Storage and Repair of Epoxiglas® Tools

Epoxiglas® Hot Sticks





Features & Applications

- Chance introduced Epoxiglas® in 1957
- The result of a three-year research and development program
- Epoxiglas® consists of thousands of epoxy resinimpregnated glass fibers
- Fibers are wound around and laid lengthwise over a unicellular plastic foam core
- Foam core consists of millions of individual cells
- Cells contain a low boiling inert material which inhibits moisture absorption and condensation
- Unicellular foam is bonded to reinforced walls to obtain a foam integrity that cannot be matched by other tool manufacturing methods
- Electrical and mechanical advantages of Epoxiglas® Hot Line Tools have been verified by their acceptance for stringent requirements of hot line maintenance

Care of Expoxiglas® Hot Line Tools

- Proper care will result in longer tool life, safety and crew confidence
- Keeping hot line tools dry is a key factor in their care
- They should never be laid directly on the ground
- Keep in truck or a tool trailer until ready for use
- Place on a tool rack near the groundman when ready for use
- A clean dry tarpaulin should be spread to prevent tools from contacting ground
- Most line crews have groundman wipe hot stick clean
 This is performed with a silicone imprognated Change
- This is performed with a silicone impregnated Chance Hot Stick Wiping Cloth immediately before it is sent up the structure for use on energized lines



Cleaning a pole with Chance Moisture Eater II

Cleaning Epoxiglas® Hot Line Tools

- Clean and regloss after approximately 10 wipedowns with Moisture Eater II
- Clean and regloss when contaminated by moisturebearing and conductive materials
- Use Chance cleaner-solvent, Moisture Eater II
- · Cleaner can be applied with a non-abrasive cloth
- For heavy contamination, use abrasive cleaning pads
- If gloss finish of pole has been removed, it can be returned to factory conditions by coating with Chance Gloss Restorer
- This forms a clear, tough coating to prevent future contamination



Repairing Small Ruptures

- Surface ruptures in Epoxiglas should be repaired as soon as discovered
- Repairs can be made by removing damaged fibers, cleaning the void with Chance Moisture Eater II and applying Chance Epoxiglas Bond
- After patch has set, refinish pole (after 24-hour cure time) with Epoxiglas® Gloss Restorer and it is ready for use

Protecting Tools during Transportation

- Containers or bags should be used to prevent damage to surfaces of individual tools
- Tools should be mounted on racks in trucks or trailers
- Racks should be well padded and hold tools firmly in order to prevent damage

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2502 July 2014



Epoxiglas® Cleaning Kit

Features & Applications

- Essential for care and maintenance of Epoxiglas® tools
- Also cleans insulated boom sections of aerial lift trucks
- Helps to ensure maximum life of Epoxiglas products
- Do not use on Gel-Coat or painted boom surfaces

4 Parts Of The Kit

- Moisture Eater II This cleaner should be used on contaminated Epoxiglas during general tool maintenance and in preparation for reglossing a tool's surface. Moisture Eater removes moisture and a wide variety of contaminants such as dirt, tar, grease, tree sap, light metal rubbings and old surface coatings without harming the Epoxiglas material
- 2. Abrasive Cleaning Pads These pads are used in conjunction with Moisture Eater II to remove contamination that clings to the tool or contamination ground into scars and scuffs in the tools surface. Gloss restorer must be applied after using these pads since cleaning with Moisture Eater II will remove the glossy finish on the tool as well as contamination. The pads may also be used on metal parts to remove oxides and surface corrosion
- Gloss Restorer Kit This kit consists of two parts.
 When mixed and applied to the surface of a cleaned Epoxiglas tool they combine to form a clear, tough coating that replaces the original gloss and protects against contamination and moisture

Moisture Eater II Cleaner-Solvent for hot-line tools, line hose and blankets

Features & Applications

- Strong solvent for water and conductive contaminants
- Safe to Earth's ozone layer free of chlorinated hydrocarbons
- More economical, easier to work with due to lower evaporation rate
- Pleasant, orange scent from citrus-based biodegradable component

Less Waste

- Contains no water and absorbs water in its presence
- Removes twice as much water as the original Moisture Eater
- · Minimizes chemical waste
- Unique formula of Moisture Eater II gives it a much lower evaporation rate than original formula and other hot-line tool cleaners

Environment-Friendly Advantages

- New formula consists of two solvents:
 - o One for oils, waxes and silicone-type contamination o One for moisture contamination
- This combination is ideally suited for cleaning hot-line tools
- A by-product of citrus fruit, one component is biodegradable; the other component protects it from decomposing until used



4. Hot Stick Wiping Cloths — Silicone impregnated cloths are used to wipe down mildly contaminated Epoxiglas, removing dust and dirt, and depositing a thin protective film on the surface of the tool. They give an added measure of protection when used after recoating with gloss restorer

Catalog No.	-	Description		
C4002364		Moisture Eater II Cleaner, 1 gal./4.23 liters		
C4002365		Epoxiglas Cleaning Kit*		
The above kit consists of the following items: (Each may also be ordered separately.)				
C4002364	1	Moisture Eater II Cleaner, 1 gal./4.23 liters		
C4001166	2	Abrasive Cleaning Pads (box of 20)		
C4001520	3	Gloss Restorer Kit		
M1904	4	Hot Stick Wiping Cloth (*2 in Kit above)		

 Reformulation eliminates chlorinated solvents harmful to Earth's ozone layer

 For more technical details, refer to Material Safety Data Sheet ABC/C56

Available in 1-gallon jug as Catalog No. C4002364 (also comes in Epoxiglas Cleaning Kit).





Page 2503

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014



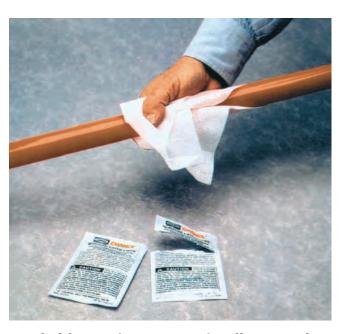
Moisture Eater II Wipes for hot-line tools, rubber line hose & blankets

Features & Applications

• Economical, individual packets encourage daily use Helps utilities stay in compliance with OSHA 29 CFR 1910.269(j)

Packaged For Convenience

- Small pocket-sized packets
- For cleaning of insulated hot-line tools, line hose and rubber blankets
- Zip open a foil packet and pull out the pre-moistened, lint-free towel
- Each wipe is saturated with a half ounce of orangescented Moisture Eater II solvent
- Hanger box holds 50 wipes handy for crew bays, trailers, and trucks
- Sealed wipes mean no more rags to store or try to keep clean in the field
- No more jugs to stow, big spills, evaporation losses or wasteful excesses



Workable, Environment-Friendly Formula

- Eliminates waste while thoroughly clean tools
- Much lower evaporation rate than other hot-line tool cleaners
- Contains no water and absorbs water in its presence
- Does not contain chlorinated solvents harmful to the Earth's ozone layer
- New formula consists of two solvents:
 One for oils, waxes and silicone-type contamination
 One for moisture contamination
- This combination is ideally suited for cleaning hot-line tools
- A by-product of citrus fruit, one component is biodegradable; the other component protects it from decomposing until used
- Reformulation eliminates chlorinated solvents harmful to Earth's ozone layer
- For more technical details, refer to Material Safety Data Sheet ABC/C56







Line hose and rubber blankets clean up easily with Moisture Eater II wipes.

Ordering Information

Catalog No.	Description	Weight	
C4002538	Moisture Eater II Wipes (1 box of 50 packets)	2.7 lb. (1.2 kg.)	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2504 July 2014



Silicone Wipes for hot-line tools

Features & Applications

- Economical, individual packets encourage daily use
- Packaged for easy access on the jobsite
- Easy way to encourage daily cleaning
- Helps utilities stay in compliance with OSHA 29 CFR 1910.269(j)

Quick & Easy Extra Protection

- Small pocket-sized packets
- Encourage frequent care of insulated hot-line tools
- Hanger box holds 50 wipes handy for crew bays, trailers, and trucks
- Sealed wipes mean no more rags to store or try to keep clean in the field
- Zip open a foil packet and pull out the pre-moistened, lint-free towel
- Silicone-saturated 8 x 10" lint-free towel easily cleans hotsticks
- Contain same silicone as Hot Stick Wiping Cloths in Chance Epoxiglas® Cleaning Kit
- Using cloths or Silicone Wipes on fiberglass tools removes dust
- Thin, protective coat helps resist accumulation of dirt and contaminants

Quick & Easy Extra Protection

- The last step in everyday clean-and-wipe routine
- Replaces protective film that cleaners such as Moisture Eater II remove
- Also preserves tool surfaces
- Used after Chance Gloss Restorer, sealed and disposable wipes ensure a clean application of a preservative layer on new surfaces





Simple and convenient:

• Easy-open

• Single-use

• Disposable

Ordering Information

Catalog Number		Description	Weight
	C4002568	Silicone Wipes, one box of 50 packets	2.7 lb. (1.2 kg.)



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 2505



Wet/Dry Hot Stick Tester for easy, portable compliance with industry standards

New Controls & Meter for All Requirements

- Simple to operate, portable unit
- Makes easy work of testing insulated live-line tools
- Wet and dry modes selected by a toggle switch
- Follows procedures specified by ASTM, IEEE and OSHA
- Graduated meter gives precise readout of each tool's leakage current

Portable Operating Ease

 For testing any length fiberglass-reinforced plastic (FRP) hot stick up to 3" in dia.



- For spot checks at field jobsites or periodic diagnostics in workshop
- Full-scale test setups for both Wet (75 kV-per-foot) and Dry (100 kV-per-foot)
- Compact, self-contained unit easily carried and operated by one person
- In Setup procedure before each use, a zeroing knob is used to set meter to zero without a tool in the tester
- Furnished Check Bar serves as self-check to ensure tester is functional
- Included video demonstrates "how-to" basics for Setup, Dry and Wet tests
- Owners Manual must be read and understood before operating tester



Ordering Information

Included with each Tester:

- Check bar Owners operating instruction manual
- Demonstration video Carrying case

Catalog No.	Wet/Dry Hot Stick Tester	Weight
C4033178	115-volt model	20 lb./9.0 kg.
C4033179	*230-volt model	20 lb./9.0 kg.

^{*}Power-source cord does not include plug on 230-volt model



Quantitative Test Results

- When placed on tool, displays any increase in leakage current due to hotstick
- Gives immediate indication of stick's true leakage condition, independent of stray currents (through the air, internal to testers, etc.) zeroed out in advance
- Detects leakage currents due to surface contamination, internal moisture and such internal conductive materials as carbon tracks







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2506 July 2014

Epoxiglas® Bond Patching Kit

- Can be used to:
 - o Repair small surface ruptures on Epoxiglas Hot Sticks
 - o Install new ferrules on Epoxiglas poles
- o Assist in replacing rungs on Epoxiglas Ladders
- Tube of hardener and tube of resin are mixed immediately before repairs
- Mixing stick is included can also be used for applying repair bond
- Epoxiglas Bond contains the same orange color as used in Epoxiglas poles
- Small surface ruptures can be repaired by removing damaged fibers, cleaning void with Moisture Eater II cleaner-solvent and applying Epoxiglas Bond

Cat. No.	Description	Weight
H1917	Epoxiglas Bond Patching Kit	.5 lb./.23 kg.



H1917

Epoxy Sand Kit

- All the necessary ingredients to replace sand finish on one 10' ladder
- Includes Epoxy resin, curing agent, pint of sand, and stirring blade
- Also includes instruction sheet for mixing

Cat. No.	Description	Weight
H1921	Epoxy Sand Kit	4 lb./1.8 kg.

Epoxiglas® Plug Kit

- Features high-strength, low-shrink material
- Includes same ingredients as used in Chance factory "plugging processes"
- Chemical adjustment prevents kit from "scumming" over in transit or storage

		Approx.
Cat. No.	Description	Weight
C4000730	Epoxiglas Plug Kit	6 lb./2.7 kg.

Tool Lubricant

- Non-flammable, non-toxic, non-corrosive material
- Gives hoists and tools lubrication needed for top working condition
- Coats moving parts with a durable film
- Prevents tools from binding and galling
- Handy plastic squeeze bottle for easy application

		Approx.
Cat. No.	Description	Weight
M1909	Chance Tool Lubricant	4 oz./.1 kg.

Dry Film Tool Lubricant

- For all bearing surfaces, sliding and threaded, of Chance Hot Line Tools, Construction Tools and Pole Line Hardware
- · Dry film blend of solid lubricants
- Basic ingredient is Molybdenum Disulfide
- Applied as any aerosol-packaged spray material
- Air dries and bonds to tool surface almost instantly

Cat. No.	Description	Weight
C4002335	Dry Film Lubricant	12 oz.



H1921



C4000730





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



July 2014 Page 2507



Epoxiglas® Blank Poles



Features & Applications

- Tested per OSHA & ASTM F711
- Available for field repairs in a number of sizes
- Extreme caution must be taken in tool reassembly:
 - o Follow detailed instructions available from Hubbell Power Systems, Inc
 - o Contact your Chance territory manager for details
 - o Failure to properly attach metal ferrules and splices to these poles or to use proper materials for rivets, internal plugs, adhesives or procedures may result in premature or below rating breakage
- Designed by Chance engineers for use in hot line tool applications
- · Materials include glass fibers, epoxy resin, and

unicellular plastic foam

- In finished form, unicellular plastic foam acts as a core
- Specially treated glass fibers are placed circumferentially and longitudinally after being coated with a specially formulated epoxy resin and oven-cured
- Because Epoxiglas Poles are moisture-absorption resistant, heated trailers and drying room are not required
- Only the reasonable care normally afforded hot line tools is necessary to maintain sound insulation level
- The color selection for Epoxiglas is Omaha orange:
- o This color is highly visible in usage areas
- Color is actually present throughout the material, not just a surface finish

Cat. No.	Dia.	Length	Weight
H4539	1 ¹ / ₄ "	3'11"	1.3 lb./.6 kg.
H45391	11/4"	5'11"	2.0 lb./.9 kg.
H45392	11/4"	7'11"	2.7 lb./1.2 kg.
H45393	11/4"	9'11"	3.3 lb./1.5 kg.
H45394	11/4"	11'11"	4.0 lb./1.8 kg.
H45401	11/2"	5'11"	2.9 lb./1.3 kg.

Cat. No.	Dia.	Length	Weight
H45402	11/2"	7'11"	3.9 lb./1.8 kg.
H45403	11/2"	9'11"	4.8 lb./2.2 kg.
H45404	11/2"	11'11"	5.8 lb./2.6 kg.
H45405	11/2"	13'11"	6.8 lb./3.1 kg.
H45406	11/2"	15'11"	7.8 lb./3.5 kg.
H45413	2"	9'11"	8.7 lb./3.9 kg.

Cat. No.	Dia.	Length	Weight
H45414	2"	11'11"	10.4 lb./4.7 kg.
H4542	21/2"	5'11"	7.4 lb./3.3 kg.
H45421	21/2"	7'11"	9.9 lb./4.5 kg.
H45422	21/2"	9'11"	12.4 lb./5.6 kg.
H45423	21/2"	11'11"	14.9 lb./6.7 kg.
H45424	21/2"	13'11"	17.4 lb./7.8 kg.

End Caps



Heavy Duty Cap

For more information on end caps, see Catalog Section 2100.

	Catalog No.	Description
P4032312P Heavy-Duty End Cap for 11/4" Epoxiglas		Heavy-Duty End Cap for 11/4" Epoxiglas pole
	056394P	Plastisol End Cap for 11/4" Epoxiglas pole
	056395P	Plastisol End Cap for 11/2" Epoxiglas pole
	069326P	Plastisol End Cap for 2" Epoxiglas pole
	069214P	Plastisol End Cap for 21/2" Epoxiglas pole



Plastisol Cap

Rigid Pole Splices



Features & Applications

- Recommended for all load conditions-tensile, compressive, or deflection
- Make a rigid connection that is stronger than the pole
- Use of heat-treated aluminum alloy for the ferrule makes splices lightweight
- Also keeps spliced poles well balanced
- Counter-threaded stainless steel collar locks threaded poles together
- Available for assembly on Epoxiglas blank poles (above)
- Shortens Epoxiglas tools for storage or to couple with spliced tools (page 2118)
- Also see page 2118 for Universal Fittings for Spliced Poles

Cat. No.	Description	
H33651	Rigid Splice for 11/4" Pole	
H33652	Rigid Splice for 11/2" Pole	
H33653	Rigid Splice for (11/2 to 11/4")	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2508 July 2014



Hand Guards

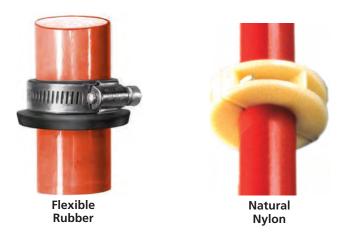
Features & Applications

- Maintain minimum clearances between hand and working end of hot line tool
- Always refer to OSHA regulations and utility work clearance procedures

Hand Tool* Guard spacing below tool head Voltage kV/phase Minimum Insulation

Voltage kV/phase	Minimum Insu
15	2'1"
34.5	2'4"
69	3'
115	3'2"
161	4'
230	5'3"
345	8'6"
500	11'3"
765	14'11"

* These spacings apply to hand tools. Other tools may permit reduced spacings. Always refer to OSHA regulations and your utility work clearance procedures.



Catalog No.	Hand Guard Description	Weight
M30021	Flexible rubber for 11/2" dia. pole	4 oz./.1 kg.
C4030799	Natural nylon fits 11/4" dia. pole	2 oz./.06 kg.
C4030800	Natural nylon fits only 11/4" Grip-All	2 oz./.06 kg.

Tool Hangers

Features & Applications

- Engage conductors up to 556.5 kcmil ACSR
- H17605 Pole Hanger was designed for 1-1/4" or 1-1/2" dia. Epoxiglas® poles
- Includes a black Nylon-filled plastic hook and steel hose clamp for easy attachment
- M1858 Pole Hangers attach to 1-1/4" and 1-1/2" Epoxiglas poles by heat-shrink plastic tubing
- Includes a Polyethylene hook, shrink tubing, tape and installation instructions

Catalog No.	Description	Weight
H17605	Nylon-filled Plastic Hook & Steel Clamp	7 oz./.3 kg.
M1858	M1858 Polyethylene Hanger for 11/4" Pole	

Hot Line Tool Rack

Features & Applications

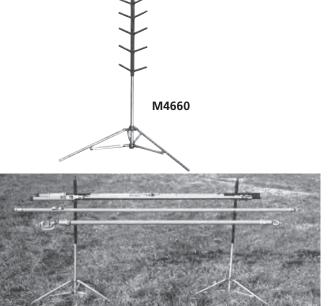
- Eliminates need for rolls of canvas or other ground covering devices
- Compact, collapsible racks take up little space on line truck or in trailer
- Abrasion-resistant plastisol coating over arms and center mast protects tools
- All metal parts below plastisol are galvanized or bronze for corrosion resistance
- Folding tripod-like legs can be locked in fully opened or fully closed position
- An eye pin, secured by a bead chain, is used to lock legs in position
- Each pair of Tool Racks will support up to 12 tools as there are 12 arms to a rack
- Poles of 3" dia. will easily fit on the arms

Catalog		No. of Tools	
No.	Description	Accommodated	Weight
M4660	1 Tool Rack*	12	10 lb.

^{*} These are normally used in pairs: Quantities of two M4660 should be specified.









Page 2509

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Tarps & Storage Bags for Hot Line Tools



Description	Catalog No.
10 ft. x 10 ft. Tarpaulin	T3060025
12 ft. x 12 ft. Tarpaulin	T3060014



Features & Applications

- All-Purpose Tarps in same yellow heavy-duty vinylimpregnated fabric are available in the two sizes at right
- To select the right bag, first locate tool catalog number and specify bag catalog number listed in adjacent column
- Chance waterproof storage bags help guard against contaminants and abrasion
- Help maintain the insulating properties of hotline tools
- Yellow heavy-duty vinyl-impregnated fabric lasts for years of rugged service
- Snaps, Velcro® closures and custom-tailored pockets fit appropriate tools listed below and on facing page

ALL-ANGLE COG WRENCHES

Tool Cat. No.	Bag Cat. No.
C4030184	P6216
C4030185	P6218
C4030186	P62110

AMERTONGS

Tool Cat. No.	Bag Cat. No.
H19686	P6216
H19688	P6218
H19786	P6406
H19788	P6408

DISCONNECT STICKS Fixed and Spliced

Tool Cat. No.	Bag Cat. No.
H30465, H304611	P6434
H30466, H304612, H304622	P6436
H30467, H304613, H304623	P6438
H30468, H304614, H304624	P64310
H30469, H304615, H304617	P64312
H304616, H304618, H304620	N/A
H314612	P6215
H314616, H314618	P6218
H314620	P62110
H314624	P62112

CABLE CUTTERS Lever-Type

Tool Cat. No.	Bag Cat. No.
H18716, H18736	P6406
T4030687	P6408

FLEXIBLE INSULATED WRENCHES

Tool Cat. No.	Bag Cat. No.
H18912, H18915, H18917	P6436
H18913, H18916, H18918	P6438

Hydraulic

C4030731 & C4032861	T3060007
C4030732 & C4032862	T3060008

Ratchet

C4031381	T3060028
C4031382	T3060028
C4031383	T3060029
C4031384	T3060029
C4031421	C3060023
C4031422, C4031423	C3060000

GRIP-ALL CLAMPSTICKS

Tool Cat. No.	Bag Cat. No.
C4030291	P6434
C4030292, C4031035	P6436
C4030293, C4031036	P6438
C4030294	P64310
C4030295	P64312
C4030296, C4030297	P6432
C4030298	P6433
C4030299	P6435
C4030342	PSP6435005
C4030343	PSP6435004



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2510 July 2014



HOIST, NYLON RATCHET

Tool Cat. No.	Bag Cat. No.
PSC3090323	C3060000

PLATFORM (Roll Bag)

Tool Cat. No.	Bag Cat. No.
H49646W	P610

POSITIVE-GRIP CLAMPSTICKS

Tool Cat. No.	Bag Cat. No.
HG30302, HG303012	P64310

ROLLER LINK STICKS

Tool Cat. No.	Bag Cat. No.
H47144	P6436
H47146	P6438

STRAIN LINK STICKS

Tool Cat. No.	Bag Cat. No.
C4000812	P6436
C4000814	P6438
C4000815	P64310
C4000816	P64312
C4000817	P64314
C4000818	N/A
H47161	P6434
H47162, H4717	P6215
H47163, H47171, H47181	P6218
H47164, H47182	P62110
H47165, H47183	P62112
H47166, H47184	P62114
H4718	P6216

STRAIN POLES

Tool Cat. No.	Bag Cat. No.
H1949113, C4012146	P62110
C4000612, C4000613,	P62112
C4012147	N/A
C4012148	P62114
C4012149	N/A

TELESCOPING DISCONNECT STICKS

Tool Cat. No.	Bag Cat. No.
C4031017, C4031018,	
C4031019, C4031598,	P6213
C4031599, C4031600	
C4031020, C4031021,	
C4031022, C4031022EM,	P6215
C4031601, C4031602	
C4031023, C4031597,	P6434
C4031739	
T4032205	C4032813
T4033349	P6216
	·

July 2014

TIE STICKS

Tool Cat. No.	Bag Cat. No.
H185519, H185520	P6438
H185525, H185526	

TRANSFORMER GIN

Tool Cat. No.	Bag Cat. No.
C4000090	P644

TREE TRIMMERS & EXTENSIONS

Tool Cat. No.	Bag Cat. No.
H2006, H2106	P6218
H2036, H2056,	P6436
H2136, H2156	
H2038, H2058,	P6438
H2138, H2158	

UNIVERSAL POLES

Tool Cat. No.	Bag Cat. No.
H1760, H17604, H1761,	P6438
H1770, H17908	
H17601, H17603	P6436
H17602, H17606	P6434
H176010, H179010	P64310
H176012, H179012	P64312
H176014, H179014	P64314

WIRE HOLDING STICKS

Tool Cat. No.	Bag Cat. No.	
C4033068	P6436	
C4033069	P6438	

WIRE TONGS

Tool Cat. No.	Bag Cat. No.		
H46458, H46468	P6218		
H464510, H464610,	P62110		
H464710			
H464612, H464712,	P62112		
C4000171, H467712			
H464714, H467714,	P62114		
C4000172, T4001252			
H464716	P6218		
	(2 each)		

 $Phone: 573\text{-}682\text{-}5521 \;\; Email: hpsliterature@hubbell.com \;\; Web: hubbellpowersystems.com$



Page 2511

CHANCE®

Tool and Rubber-Glove Protective Bags and Buckets

Features & Applications

- Made of double vinyl laminated open weave nylon cloth
- Lightweight and durable with nylon stitching throughout
- Standard color of all synthetic material is easy-to-see, bright yellow

LINEMAN'S TOOL BAG

Features & Applications

- 22" L x 11" W x 11" D
- Plywood bottom covered inside and out with metal skids on bottom of bag
- Has full separating heavy duty zipper and heavy webbing handles around bag
- Full 4" pocket on inside



GLOVE BAG

Features & Applications

- 18" L x 8" W
- · One piece front and back, bar-tacked at all corners
- Leather-reinforced inside and out for snap
- Double-nylon stitched
- Gusset has 4" top tapering to 2" bottom





LINE HOSE BAG Features & Applications

- 48" L x 7" Dia.
- 3"-wide plastic top ring
- Molded plastic bottom with 2" cuff
- 3/8" rope handle

COMBINATION GLOVE AND SLEEVE BAG Features & Applications

- 18" L x 8" W
- Separate storage for rubber gloves and sleeves
- Single flap, double-nylon stitching
- Reinforced inside and out for snap





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 2512



TOOL BUCKET

Features & Applications

- 12" dia. x 15" D
- Molded plastic bottom with 2-1/2" tapered molded flange up sides
- Top has molded plastic ring, ½" polypropylene rope
- Standard 4" x 8" inside pocket



C4170144

TOOL BUCKET

Features & Applications

- 7" dia. x 10" D
- For steel tower work
- Molded plastic top and bottom
- 3/8"Chemline rope handle



SLEEVE BAG

Features & Applications

- 27" L x 12" Top 7" Bottom
 For flat storage of rubber sleeves
- Bar-tacked corners, snap fasteners, and double-nylon



Cat. No.	Description	Weights
C4170144	Tool Bucket (15" Deep)	2 lb. 8 oz.
C4170146	Tool Bucket (10" Deep)	12 oz.
C4170147	Lineman's Tool Bag	3 lb.
C4170148	Glove Bag	8 oz.
C4170149	Sleeve Bag	10 oz.
C4170150	Glove & Sleeve Bag	10 oz.
C4170151	Line Hose Bag	2 lb.

For Hot Stick Storage Bags, see Catalog Page 2510.

HUBBELL

Page 2513

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE®

Storage Canisters for Rubber Insulating Blankets

Features & Applications

- Proper storage extends blanket life
- Provides easy access in service
- Long-lasting construction
- For physical and contamination protection, canisters are lightweight yet durable and stow easily on service vehicles and in warehouses
- Cylindrical shape promotes proper treatment rubber blankets should never be folded, creased or compressed when stored
- Rolling blankets before inserting helps keep them ready for service
- Blankets nested inside each other may be inserted or withdrawn one at a time
- Bright orange color
- High-impact-resistant high-density polyethylene for tough, rust-free resilience
- Polypropylene rope keeps tight-fitting cap secured to canister



C4032999 has a molded handle and is 10" in diameter.



C4032998 does not have a handle and is 7" in diameter.

Storage Canisters for Rubber Insulating Blankets

Catalog		
No.	Description	Weight
C4032998	No handle, 7" dia., 37" long	6 lb./2.7 kg.
C4032999	With handle, 10" dia., 37" long	7 ⁵ / ₈ lb./3.43 kg.

Silicone Lubricant for flexible line hose and general applications

Features & Applications

- Makes line hose easy to put on and slide into place
- Silicone material also serves as a multi-purpose lubricant
- Handy 10 oz. size aerosol package provides convenient applicator to coat all interior line hose surfaces
- Simply spread open the hose near one end and direct the can nozzle's wide spray pattern inside, working down the hose to its other end
- Soft, clean cloth may be used to wipe silicone on large surfaces
- May be used in place of petroleum-based lubricants
- Surfaces to be coated should be clean and dry
- For more technical details, refer to Material Safety Data sheet ABC/C40



Catalog No.	Description	Can Contents
C4002320	Silicone Aerosol Lubricant	10 oz./284 gm.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2514 July 2014



Walk-in Tool Trailers

... Continued on next page ...



Your new Walk-In Tool Trailer will provide a convenient way to store, transport and care for your Hot Line Tool sets.

Standard lengths of 16 and 20 feet offer headroom of 6 feet-6 inches. A 7,000-lb. gross vehicle weight rating gives the trailer ample capacity for your job requirements.

Standard Equipment CHECKLIST

Interior Tool Storage

- Full Length storage bins on both sides and across front
- Overhead rack and thumbscrews for 30 universal tools (Left side)
- ▼ Two full-height center racks
- Ladder channel on floor between center racks

Exterior and Towing

- W Breakaway braking system
- Spare tire with mounting bracket
- Adjustable height pintle eye hitch
- ▼ Fold-up hand crank tongue jack
- Two safety chains



- Corrosion-resistant aluminum exterior
- Tandem axles Electric Brakes
- Dual rear doors One curb-side door
- Tongue mounted spare tire
- Center Interior racking for tool storage
- White exterior finish
- 7-way 12V Trailer End Connector







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 2515

CHANCE®

Walk-in Tool Trailers

... Continued on next page ...

Optional Equipment Optional features available In addition to the Standard features and **CHECKLIST**

equipment, Walk-In Trailers can be custom ordered with the Options listed below.

Please check the boxes on these two pages to select Options or just get in touch with us to help.

Interior Tool Storage OPTIONS

Α.	Second overhead rack and thumbscrews for 30 universal Tools (Right side)
R	12Vdc interior lights with two wall switches, select only one ontion:

1 pair of lights 2 pairs of lights 3 pairs of lights

- C. Wall mounted tool rack with 24 supports and eight elastic tiedowns (Left Side)
- D. Wall mounted tool rack with 24 supports and eight elastic tiedowns (Right Side)
- E. Second interior ladder rack
- F. 110/220 Vac "dry room" heater
- One additional support stud kit (10 per box) for side or center tool racks Catalog Number T4002528 (must be ordered as a separate line item)











Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2516 July 2014



Walk-in Tool Trailers

... Continued on next page ...

Optional Equipment

Exterior and Towing OPTIONS

H. 12 Vdc Power Tongue Jack

I. Rear Skid Plate

J. Rear Mounted Bumper 6"

K. Rear Mounted Step Bumper 12" (not shown)

L. 2 5/16" Ball Type Hitch (not shown)

M. Rear Ramp Door (not available with rear bumper)

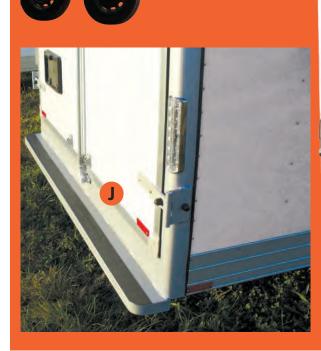
N. 10,000-lb. GVWR [two 5,000-lb. axles] (not shown)

Optional features available

In addition to the Standard features and equipment, Walk-In Trailers can be custom ordered with the Options listed below.

Please check the boxes on these two pages to select Options or just get in touch with us to help.







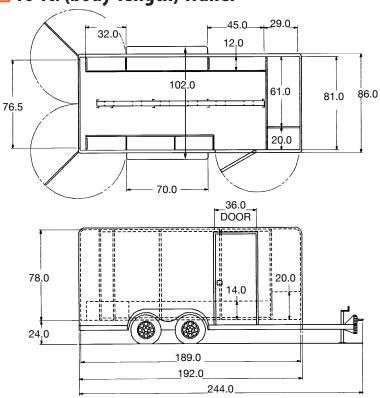
HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 2517

CHANCE Walk-in Tool Trailers

■ 16-ft. (body-length) Trailer

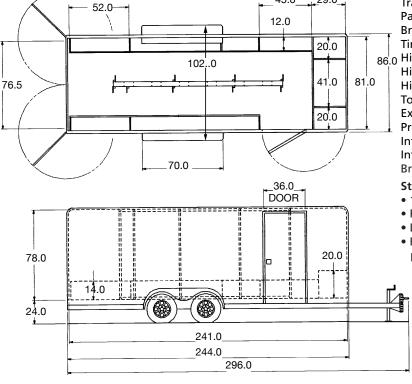


	Trailer gross vehicle weight7,000 lb. Tandem axles3,500 lb. capacity, each Trailer curb weight, empty2,200 lb.
	Payload capacity4,800 lb.
	Brakes Electric, all four wheels
	Tires 15", load range C
)	Hitch weight, empty210 lb.
	Hitch with safety chains3" pintle or 25/16" ball
	Hitch height Adjustable, 19" through 27"
	Tongue jack Manual crank with sand pad
	Exterior lights and reflectors
	Prefinished (white) aluminum skin 0.30" gauge
	Interior floorPlywood
	Interior walls are vinyl coated white.
	Breakaway system & battery (meets DOT)

Standard Storage Provisions -

- 14"-deep bins (both sides), 20"-deep front bins
- Rack for 30 universal tools (left, overhead)
- Ladder-rack channel (center, on floor)
- Full-height tool racks (center-mounted), 150 plastic-coated supports & 29 elastic tiedowns

20-ft. (body-length) Trailer



	Trailer gross vehicle weight7,000 lb. Tandem axles3,500 lb. capacity, each
	Trailer curb weight, empty2,450 lb.
	Payload capacity4,550 lb.
	Brakes Electric, all four wheels
	Tires15", load range C
ი	Hitch weight, empty250 lb.
•	Hitch with safety chains 3" pintle or 25/16" ball
	Hitch heightAdjustable, 19" through 27"
	Tongue jackManual crank with sand pad
	Exterior lights and reflectors
	Prefinished (white) aluminum skin0.30" gauge
	Interior floorPlywood
	Interior walls are vinyl coated white.
	Breakaway system & battery (meets DOT)

Standard Storage Provisions -

- 14"-deep bins (both sides), 20"-deep front bins
- Rack for 30 universal tools (left, overhead)
- Ladder rack channel (center, floor)
- Full-height tool racks (center-mounted), 150 plastic-coated supports & 29 elastic tiedowns

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2518 July 2014

45.0 . 29.0

Fiberglass Pop-Up Tool Trailers

CHANCE

. Continued on next page .



Your new Fiberglass Pop-Up Hot Line Tool Trailer will provide a convenient way to store, transport and care for your Hot Line Tool sets.

The overall length of the trailer is 23 feet. The interior space of the trailer is 17 feet 2 inches with storage for Hot Line Tools up to 14 feet 7 inches.

A 12,000-lb. gross vehicle weight rating gives the trailer ample capacity for your job requirements.

Standard Equipment CHECKLIST

Interior Tool Storage

- 12 hot line tool compartments
- 155 adjustable plastic-covered tool supports
- 20 elastic tie-down straps
- 1 channel rack for 30 Universal Tool accessories (right side)

Exterior and Towing

- Breakaway braking system
- ✓ Spare tire with mounting bracket
- Adjustable height pintle eye hitch
- Fold-up hand crank tongue jack with castor wheel
- 1 Two safety chains

Standard features include:

- Tandem axles Electric Brakes
- White exterior finish
- Four 8.00 x 14.5 tires
- Rectangular-tube steel rear bumper
- Manual crank for lid open/close device
- Step-up brackets, front and rear, both sides





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 2519



Fiberglass Pop-Up Tool Trailers ... Continued on next page ...

Optional Equipment CHECKLIST

In addition to the Standard features and equipment, Fiberglass Pop-Up Hot Line Tool Trailers can be custom ordered with the Options listed below.

Interior Tool Storage OPTIONS

Please check the boxes on this page to select Options or just get in touch with us to help.

- A. 110/220 Vac "dry room" heater
- **B.** Additional channel rack for 30 Universal Tool accessories
- C. Ladder-rack brackets (plastisol coated) mounted on lid
 - 1 pair (right side) 2 pairs
- D. Electric motor for lid open/close device (not shown)
- E. 2 5/16" ball socket type hitch, adjustable height







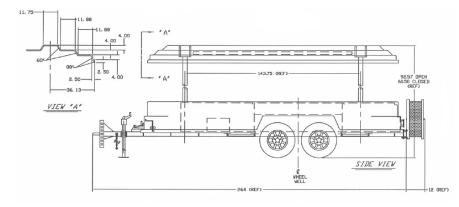


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2520 July 2014

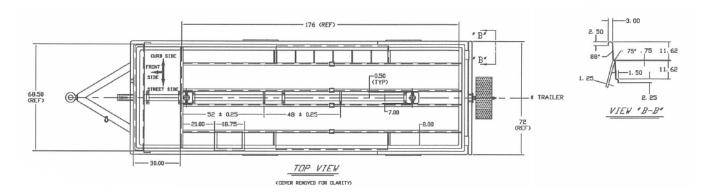


Fiberglass Pop-Up Tool Trailers



Standard Storage Provisions -

- 12 hot line tool compartments
- 155 adjustable plastic-covered tool supports
- 20 elastic tie-down straps
- 1 channel rack for 30 Universal Tool Accessories (right side)





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

July 2014 Page 2521

CHANCE®

Conductive Suit EHV Barehand Conductive Suit puts the lineman on the job . . .

Features & Applications

- Allows linemen to get closer to their work
- Clothing is bonded to conductor, placing the lineman within the field of electricity
- Allows him to work with his hand on the conductor hardware
- Transmission line maintenance efficiency and effectiveness are advanced without endangering lineman and without interrupting customer service.
- For work on voltages through 765 kV
- Two-piece conductive suit is made of a blend of Nomex aramid flame resistant fiber and microscopic stainless steel fiber
- · Zepel finish is applied to repel water

- Analysis and tests show the material:
 - o Is extremely strong and tear resistant
 - o Meets or exceeds IEC 60895 Specification for conductive clothing
 - o Does not degrade with time or number of washings
- Overcast stitching on major seams for integrity, durability and resistance to fraying
- Tails and appendages are attached by separate panels with multiple square and "x" stitches for integrity
- Velcro pads are located on strong nylon webbing suspender harness and cuffs of jacket and pants to provide rapid versatile fitting
- Corrosion-resistant snap fittings on jacket and pants make it easy to suit up
- Large hood, with drawstring, fits over any standard helmet





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

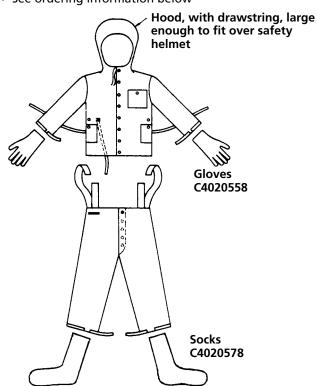
Page 2552 September 2012



Conductive Suit

Features & Applications

- Suit of trousers and jacket in sizes Medium, Large and Extra Large
- See ordering information below





- View inside the jacket shows grounding strap of jacket and pants tied together
- This prevents the electrical separation of the jacket from the pants

Ordering Information

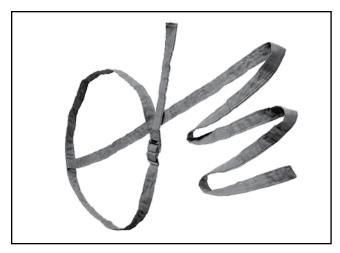
Catalog No.	Description	Weight
C4020533	Conductive Suit — medium	2 lb./.9 kg.
C4020534	Conductive Suit — large	2 lb./.9 kg.
C4020535	Conductive Suit — extra large	2 lb./.9 kg.
C4020558	Conductive Gloves (pair)	¹/₂ lb./.2 kg.
C4020578	Conductive Socks (pair)	¹/₃ lb./.2 kg.

Static Belt

Features & Applications

- Worn by linemen working on EHV structures
- Serves as a continuous ground to minimize static discomfort while working near energized lines
- Made of same material as Chance Conductive Suits
- Should be buckled snugly around the waist, next to bare skin
- Has a 6' lead that can be attached to the steel structure

Cat. No.	Description	Weight
T4020694	Static Belt	2 oz.



T4020694



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 2553

CHANCE®

Conductive Boots

Features & Applications

- 8" leather conductive boot
- Offers linemen both comfort and protection
- Meets all ANSI Specifications for conductive footwear
- Has a leg harness with a black conductive sole
- A wire molded into the rubber leads up the back with the conductive rubber strap covering to a conductive snap fitting at the top of the boot
- An additional conductive boot strap is secured through a snap fitting from boot to conductive suit or to leg strap
- This connection again, has a wire built into a nylon and conductive rubber strap

Weight per pair: 6½ lb./2.9 kg.



Mechanical Features

- Boot upper is made of top quality, high oil content leather
- Water resistant
- Flexible and durable
- Finely-crafted stitching and brown finish
- Meets ANSI Class 75 steel toe footwear specifications (75 lb. crush strength)
- Has a flexible full stainless steel inner sole, 400 lb. test
- Heel counter is molded into the sole to prevent its pulling away
- Welt is neoprene, not rubber or leather, to resist cracking
- Sole is vulcanized under 20,000 pounds of pressure to the welt, not to upper
- Makes the sole more flexible and helps prevent it from separating from upper
- Tempered steel shank is built-in for proper arch support

Electrical Features

- Meets ANSI Specifications Z41 for safety-toe footwear
- Manufactured to specification of less than 10,000 ohms from leg strap to boot heel
- 100% inspection/testing conducted on each boot as part of manufacturing process

Catalog No.*	Size (EEE widths)
C4170623	6
C4170624	7
C4170122	8
C4170123	9
C4170124	10
C4170125	11
C4170126	12
C4170625	13
C4170626	14

^{*} Leg harness straps are included

Linemen's Holsters



PS111HLS (Tools not included)



PSC111HLDS (Tools not included)

Features & Applications

- Manufactured by Bashlin, maker of only premium holsters for tool belts
- Feature double backs which are reinforced for extra wear
- Left handed holsters are available at no extra cost
- Add an "LH" to the part number when ordering

No. PS111HLS For pliers, rule, screwdriver,

*Channellock®, knife

or wrench Ship Wt: 1.25 lb (0.57 kg)

No. PSC111HLDS For pliers, rule, screwdriver,

*Channellock®, ratchet driver,

knife or wrench

Ship Wt: 1.50 lb (0.68 kg)

*Registered trademark of Channellock, Inc.

Do not use groundmen's or electrician's holsters on linemen's tool belts.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2554 September 2012

Ordering Bashlin Tool Belts



Sizing

- Proper sizing of lineman's tool belt is critical
- Improperly sized belt is uncomfortable and may cause an accident or injury
- Bashlin tools belts are measured by the "D" size
- This is the distance between the heels of the D-rings
- All linemen's tool belts must be ordered according to the "D" size

Sizing

- Locate the point where the heel of the "D" ring should rest
- As the photo illustrates, this is approximately 4" down from top of hip bone
- Begin to measure from this point
- Measure around buttocks to same point on opposite side
- When a properly sized tool belt is worn, D-rings will point nearly straight ahead
- Tongue adjustment will also be in center holes as shown in Photo 3
- To properly size Padded Rest-A-Back tool belts, add 2" to your standard "D" measurement

BELT ADJUSTMENT IN INCHES - PER ASTM F887

D Size, inches	Minimum, inches	Center Hole	Maximum, inches	Tool Loops
D18	32	36	40	3
D19	33	37	41	3
D20	34	38	42	3
D21	36	40	44	4
D22	37	41	45	4
D23	38	42	46	4
D24	40	44	48	4
D25	41	45	49	4
D26	42	46	50	4
D27	44	48	52	4
D28	45	49	53	4

A WARNING

Never carry wire, tools, or anything other than the "positioning" strap in the D-rings of a tool belt. Foreign objects carried in the D-rings may cause the snap to malfunction, and accidental disengagement to occur.







A WARNING

Falls can cause serious injury or death.

Linemen's Tool Belts (continued, next page)

All linemen's tool belts must be ordered according to "D" size. Example: PSC60FHD21 See how and table above.

The Bashlin Deluxe

- Field-tested, proven design
- One of the original semi-floating, shifting "D" belts
- Shifting "D"s reduce chafing and bumps on hips
- 5" cushion pad is soft and breaks in easily
- Harness leather tool loops and tongue and buckle section are designed for rugged use

No. PSC60FHDXX Ship Wt: 6.25 lb (2.83 kg)



HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 2555



Linemen's Tool Belts (continued)

All linemen's tool belts must be ordered according to "D" size. Example: PSC1511ND18 See how and table on Page 2555.



The Floridian

- Superior design and performance
- The industry standard
- Combines padded, contour cushion section with flares for the shifting D-rings and a 5-1/2" back
- Gives excellent support and climbing comfort
- A practical, economical belt

No. PS88DXX Ship Wt: 6.50 lb (2.95 kg)



The Wrangler

- A practical favorite
- 5" cushion section
- Nylon back
- 6-ply tongue and buckle section
- Lightweight, with standard comfort
- Bashlin's S-shaped D-rings
- All-leather cushion

No. PSC1511NDXX Ship Wt: 5.25 lb (2.38 kg)



The Nylon Deluxe

- Familiar design in a shifting "D" nylon belt
- Neoprene-impregnated nylon back
- Light, durable and flexible in extreme temperature ranges
- Comfortable 5" leather cushion section
- Tongue and buckle is 6-ply nylon
- Tool loops are leather

No. PS160NDXX Ship Wt: 6.00 lb (2.72 kg)



Rest-A-Back

- Bashlin's Back Support Tool Belts help relieve strain and fatigue
- Use chart to determine proper size
- To properly size Padded Rest-A-Back tool belts, add 2" to your standard "D" measurement

Ship Wt: 8.50 lb (3.83 kg)

• See Page 2555

No. PS88BDXX

		•	, 5,
Belt Size	Upper Tongue Adjustment	Belt Size	Upper Tongue Adjustment
D18	29-36"	D24	35-42"
D19	30-37"	D25	36-43"
D20	31-38"	D26	37-44"
D21	32-39"	D27	38-45"
D22	33-40"	D28	39-46"
D23	34-41"	D29	40-47"
		D30	41-48"



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2556 September 2012



Pole Straps

Features & Applications

- Bashlin's 50 Series and 78 Series pole straps are offered here
- "L" style snaphook has lengthy field history
- It has a lock on the back to be released prior to opening the gate

A WARNING

Always visually confirm the strap is on the D-ring with the gate closed and locked before allowing the strap to support your body weight. Do not just listen for the "click".

50 Series

Features & Applications

- 6-ply 1-3/4" neoprene coated nylon material
- Uses a tongue buckle adjustment

Length	Catalog No.	Ship Wt
5' 6"	PS51N2HL	3.75 lb (1.7 kg)
6'	PS52N2HL	3.75 lb (1.7 kg)
6' 6"	PS53N2HL	4.00 lb (1.8 kg)
7'	PS54N2HL	4.00 lb (1.8 kg)



WARNING

The 50 series straps have red wear indicators in the center to help determine when it is time to replace them. When you see red it is time to remove the strap from service.

78 Series

Features & Applications

- Bashlin's pliable latigo leather straps feature a nylon insert
- Stitching is deeply imbedded in the leather for longer wear

Length	Catalog No.	Ship Wt
5' 6"	PSC78X2HL	4.25 lb (1.9 kg)
6'	PSC78A2HL	4.25 lb (1.9 kg)
6' 6"	PSC78B2HL	4.50 lb (2.0 kg)
7'	PSC78C2HL	5.00 lb (2.3 kg)



A WARNING

Double action locking snaphooks reduce, but do not eliminate, the possibility of accidental disengagement. Caution and proper work methods including keeping the Snap/D ring area free from foreign objects must be practiced at all times. Disabling the gate locks may cause accidents, injury or death.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



September 2012 Page 2557

CHANCE®

Full Body Harnesses

WARNING

- 1. The user must be properly trained prior to using Bashlin products.
- 2. Use the proper product for the job.
- 3. Inspect the harness before each use.
- 4. Wear the harness tight. It must be tight enough that the buckles hold the material properly and will not disengage accidentally. If the harness is loose, the material can hook on items in the work area, or in the worst case will not perform properly in the event of an arrested fall.
- 5. Check the buckles, and tighten the straps each time before going aloft.
- 6. Store the harness properly in a storage bag for longer wear.





A CAUTION

Connection to the front loop of the PS683XAP harness can be made with carabiners or by looping web or rope through the eye. Snaphooks that may cut the material are not to be used.

Features & Applications

- Bashlin harnesses are normally made from 10,000 lb. test woven nylon web
- Webbing is in contrasting colors (usually orange on the torso and black on the legs) for easier donning
- Meet or exceed all appropriate ANSI, ASTM, and OSHA requirements
- Hardware features a corrosion-resistant coating
- Splices are lock stitched with nylon thread of a contrasting color for easy inspection
- Each standard harness is tagged per ANSI/ASTM requirements with labels shown

A CAUTION

Bashlin harnesses must be sized and adjusted properly to function properly.

Sizing

- Bashlin harness is sized according to torso of the individual
- This involves measuring height and chest, then finding correct size on chart, according to harness style
- Height is first consideration
- Move to larger size if chest measurement is too large for corresponding height
- If chest measurement is too small for corresponding height, choose size dictated by height

PS647TDS Tower Harness Features & Applications

reatures & Applications

- Bashlin's newest tower harness
- For climbing and suspension applications
- Has leather lining on waist and seat strap
- Back pad is 6" wide
- Waist belt uses grommet-style closure
- Please state size: S, M, L, XL

No. PS647TDS__ Tower Harness

with back and shoulders D rings Ship Wt: 8 lb (3.63 kg)

Size	Height	Chest
"S" Small	5'4" - 5'7"	28" - 38"
"M" Medium	5'8" - 5'11"	38" - 48"
"L" Large	6' - 6'3"	48" - 58"
"XL" Extra Large	6'3"+	58"+

Example: PS647TDSXL (= Extra Large)

PS683XAP Climbing Harness Features & Applications

- "X"-style harness is available with the 656CM tool belt
- Belt can be easily removed from harness when not needed
- Features front attachment point for work positioning on ladders or rescue
- Please state size, and belt "D" size

No. PS683XAP__ Climbing Harness with a 3" nylon loop for lanyard in back Ship Wt: 8 lb (3.65 kg)

Size	Height	Chest
"S" Small	5'4" - 5'7"	34" - 36"
"M" Medium	5'8" - 5'11"	36" - 40"
"L" Large	6' - 6'3"	42" - 44"
"XL" Extra Large	6'4" - 6'6"	46" - 48"
"2X" Double Extra Large	6'6"+	48" - 52"
"3X" Triple Extra Large	6'6"+	52"+

Example: PS683XAPL (= Large)



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Fall Arrest Lanyard

Features & Applications

- Bashlin shock-absorbing 2000 Series lanyards are recommended for most fall arrest applications
- Include an integral polyester core that absorbs forces as it expands
- 1" tublular nylon web with polyester shock absorbing core, 1-6650 snaphook and a loop end

A WARNING

Limiting the lanyard length to 6' will not ensure a free fall of 6' or less. The lanyard length, anchor point and work location together will determine the free fall distance.

A CAUTION

Lanyards may be connected to D-Rings on harnesses with web/rope loops, and properly dimensioned carabiners or snaphooks. 3" nylon loop back attachments require web/rope loops or properly dimensioned carabiners. Snaphooks are not to be used with such attachment points.

PS28056HL

No. PS28056HL Shock absorbing lanyard Ship Wt: 1.5 lb (0.68 kg)

A CAUTION

The maximum and standard length for Bashlin 2000 Series fall arrest lanyard is 6 feet. This is to aid the user in compliance with OSHA's maximum 6 feet free fall for personal fall arrest systems.

Pole Climbers

Features & Applications

- Bashlin pole climbers meet ASTM F887 requirements
- Include #2 gaff guard and #5 gaff gauge standard
- Nylon straps are standard on Bashlin climbers

BD14 Series

- Bashlin's aluminum alloy offset climber
- Features a replaceable, forged steel gaff
- Lightweight climber reduces fatigue and adds climbing comfort
- Comparable steel climbers weigh 30% more

Number	Description	Ship Wt:
PSBD141N	Bottom straps attached	4.25 lb (1.93 kg)
PSBD142N	Bottom straps attached,	
	and top straps	4.75 lb (2.15 kg)
PSBD143N	Bottom straps attached,	
	top straps and #110D pads	5.25 lb (2.38 kg)
PSBD144N	Bottom straps attached,	
	top straps and #130D pads	5.50 lb (2.49 kg)
PSBD145N	Bottom straps attached,	
	top straps and #140DS pads	5.75 lb (2.61 kg)

BD16B Series

- Rugged, steel alloy adjustable climber
- Features replaceable gaff, offset design, roomy ankle area, and triangular strap ring

PSBD16B1N Bottom straps attached PSBD16B2N Bottom straps attached, and top straps 6.00 lb (2.72 kg)
PSBD16B3N Bottom straps attached, top straps and #110D pads 6.50 lb (2.95 kg)
PSBD16B4N Bottom straps attached, top straps and #130D pads 6.75 lb (3.06 kg)
PSBD16B5N Bottom straps attached,

top straps and #140DS pads 7.00lb (3.18kg)

WARNING

Climbers are to be used by trained personnel only.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

September 2012 Page 2559



Climber Pads, Straps

PS105 Series Pads Features & Applications

- The original "spur-stay" climber pad
 Designed to reduce kick-back and twisting of shank
- Insert holds climber for comfort and better gaff penetration
- An excellent choice for the lineman who occasionally
- Available with a straight or angled metal section

Straight	Use on	Angled	Use on	Ship Wt:
PS105A		PS105AC		1.5 lb (0.68 kg)
PS105B	PSBD14	PS105BC	PSBD14	1.5 lb (0.68 kg)

PSC130D Pad **Features & Applications**

- L-shaped design
- Light padding for added comfort

No. PSC130D (padded) Ship Wt: 0.7 lb (0.32 kg)

Climber Straps Features & Applications

- Bashlin nylon climber straps are durable, pliable, and comfortable
- Double riveted and feature a protective buckle shield

Number PSC85N	Description Top straps - 1 ¹ / ₁₆ " x 24"	Ship Wt: 0.6 lb (0.27 kg)
PS86N	One piece lower straps - 11/16" x 28"	0.6 lb (0.27 kg)
PS87N	Two piece lower straps - 1 (original style, to be used angular ring of Bashlin of Must be assembled.)	d on the tri-
PSC89N	Two piece lower straps with split ring - 11/16" x 2	8" 0.7 lb (0.27 kg)









Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2560 September 2012



15kV Hot Stick Work only Recommended Hot Line Tools List Page 1 of

Page 1 of 2

ltem	Qty.	Catalog No.	Description	Catalog Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	4	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170144	Tool bucket large	2500
11	1	C4170146	Tool bucket small	2500
12	6	C4002320	Silicone spray	2500
13	2	PSC3090467	Nylon hoist	1100
14	2	C4001175	Hoist link stick	1100
15	1	T4001938	Transformer gin	1200
16	1	T4001708	Crossarm gin	1200
17	600'	C4000799	Composite braided rope	1250
18	1	T4001265	Fid & pusher	NS
19	2	22302	Snatch block, 1,000# capacity	1250
20	2	M1849	Hand line hook	1250
21	2	T4001258	Nylon blocks w/150' composite braid rope	NS
22	2	C4170589	Nylon sling 5' DT	NS
23	2	C4170139	Nylon sling 1¾ " x 3'	1250
24	2	C4170140	Nylon sling 1¾" x 4'	1250
25	2	C4170141	Nylon sling 1¾" x 5'	1250
26	1	C3050008	Cant hook	1250
27	2	T161340H	Wire grip	1250
28	2	T16845H	Wire grip	1250
29	2	T165640H	Wire grip	1250
30	2	T165650H	Wire grip	1250
31	2	WPH3	Wire puller hook	1250
32	2	C4030293	Grip-all clampstick	2102
33	2	C4033068	Wire holding stick	2106
34	1	C4031022EM	Telescoping measuring disconnect	2109
35	2	H185525	Tie stick	2116
36	1	C4030185	All angle cog wrench	2116
37	1	T4033009	Torque extension stick for hydraulic powered tools	2117
38	1	C4031085	Socket set	2117
39	2	H17604	Universal pole	2119
40	2	M1860	Crossarm tool hanger	2119
41	1	C4031114	Universal tool kit	2120
42	1	M44559	Disconnect head	2121
43	1	M445519	Cotter key pusher	2122
44	1	M445523	Hack saw	2122
45	6	P4030369P	Hack saw blade	2122
46	1	C4032213	Pruning saw	2121
47	1	M445529B	Clamp stick head	2122
48	1	M445550	Skinning knife	2123

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2602



15kV Hot Stick Work only Recommended Hot Line Tools List Page 2 of 2

Item	Qty.	Catalog No.	Description	Catalog Section
49	1	M445563	Cleaning brush	2100
50	1	M1899	Cleaning brush replacements	2100
51	1	T4031101	Adjustable insulator fork	2100
52	1	M445585	Hammer	2100
53	1	M445587	Ball socket adjuster	2100
54	1	C4030834	Hot Rodder, large	2100
55	1	C4031071	Hot Rodder, small	2100
56	1	C4032861	Hydraulic cutters	2150
57	1	H18716	Light duty cutters	2150
58	1	H21064	Tree trimmer	2150
59	2	H46458	Wire tong 1½" x 8'	2200
60	2	H464510	Wire tong 1½" x 10'	2200
61	4	H464712	Wire tong 2½" x 12'	2200
62	1	H464716	Wire tong 2½" x 16'	2200
63	4	M47403W	Wire tong saddle 1½"	2200
64	4	M47405W	Wire tong saddle 2½"	2200
65	3	C4000073	Wire tong saddle extension	2200
66	1	M17285	Wire tong pole clevis	2200
67	3	M4743	Wire tong block clamp	2200
68	2	M1846W	Rope snubbing bracket	2200
69	4	M18474	Extension chain	2200
70	2	M4744	Crossarm type saddle	2200
71	3	M4760W	Lever lift	2200
72	2	M47602	Arbor adapter	2200
73	1	C4001016	Epoxiglas® lever lift	2200
74	1	PSC4000075002	Dual auxiliary arm with four M48057 insulators and four C4000268 instead of standard M480517	2200
75	2	C4000517	Crossarm conductor support	2200
76	1	T4002272	Corner restraint bracket	2200
77	3	H47144	Roller link stick	2250
78	3	J1541502	Insulated jumper set	2300
79	3	S16007	Insulated hanger	2300
80	3	PSC6010341	Temporary cutout tool	2300
81	8	C4060181GA	Conductor cover	2400
82	4	C4060182	Insulator cover	2400
83	4	M49371	Pole cover 9" x 1'	2400
84	4	M49372	Pole cover 9" x 2'	2400
85	3	M49376	Pole cover 9" x 6'	2400
86	2	C4060097	Pole top cover	2400
87	2	C4060102	Crossarm end cover	2400
88	2	M4933	Crossarm guard	2400
89	6	C4060084GA	Spiral cover	2400
90	12	C4060305	Flexible line hose	2400
91	1	H1876	Phasing tester	2450
92	1	C4033374	Digital voltage indicator	2450
93	1	T6000641	Ground set	3000
94	1	T6000865	Grounding set storage bag	3000
95	1	C4170151	Line hose bag	2500
96	2	C4032999	Blanket canister	2500
97	4	C4060346	Blanket, solid	2400
98	4	C4060348	Blanket, slotted	2400
99	24	C4060531	Hot stick blanket pins	2400

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2603



15kV Rubber Glove Work from an Insulated Platform Board

Recommended Hot Line Tools List Page 1 of 1

			•	Catalog
Item	Qty.	Catalog No.	Description	Section
1	2	C4021042	Epoxiglas® insulated platform 4'	2350
2	2	C4021055	Railing for 4' platform	2350
3	2	C4021164	Pivot for 4' platform	2350
4	1	C4002365	Cleaning kit	2500
5	12	M1904	Wiping cloth	2500
6	2	C4002335	Dry film lubricant	2500
7	2	M4660	Tool racks	2500
8	1	T3060025	Tarp	2500
9	1	C4170151	Line hose bag	2500
10	1	C4170144	Tool bucket large	2500
11	1	C4170146	Tool bucket small	2500
12	2	C4032999	Blanket canister	2500
13	6	C4002320	Silicone spray	2500
14	4	C4060346	Blanket, solid	2400
15	4	C4060348	Blanket, slotted	2400
16	24	C4060530	Blanket pin	2400
17	2	PSC3090323	Nylon hoist	1100
18	2	C4001175	Hoist link stick	1100
19	1	T4001938	Transformer gin	1200
20	1	T4001708	Crossarm gin	1200
21	300'	C4000799	Composite braided rope ½"	1250
22 23	1	T4001265 22302	Fid & pusher	NS 2250
23 24	2		Snatch block	2250 1250
25	2 2	C4170139	Nylon sling	1250
26	2	C4170140 T161340H	Nylon sling	1250
27	2	T16845H	Wire grip Wire grip	1250
28	2	T165640H	Wire grip	1250
29	2	C4030293	Grip All clampstick	2120
30	1	C4030293	Wire holding stick	2100
31	1	C4032980	Ratchet cable cutter	2150
32	2	M47405W	Wire tong saddles	2200
33	13	M48057	Insulators	2200
34	1	H48628	Rubber glove arm	2200
35	1	H480060	Extension arm	2200
36	1	H480072	Extension arm	2200
37	2	C4000517	Temporary crossarm conductor support	2200
38	2	T4001939	Pole mounted conductor support	2200
39	1	T4002272	Corner restraint bracket	2200
40	3	H47144	Roller link stick	2250
41	3	J1541522	Insulated jumper set 15'	2300
42	3	S16007	Insulated hanger	2300
43	3	C4031631	Load pick up tool	2300
44	3	C4001907	Tension puller switching tool	2300
45	3	C4000600	Tie back clamp	2250
46	12	P4060185	Insulator hood	2400
47	24	C4060305	Flexible line hose	2400
48	2	M4933	Crossarm guard	2400
49	2	C4060102	Crossarm end guard	2400
50	2	M49371	Pole cover 9" x 1'	2400
51	2	M49372	Pole cover 9" x 2'	2400
52	2	M49376	Pole cover 9" x 6'	2400
53	2	C4060097	Pole top cover	2400
54	1	H1876	Phasing tester set	2450
		•		

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2604 November 2013



15kV Hot Stick Work & Rubber Glove Work

Recommended Hot Line Tools List Page 1 of 2

Item	Qty.	Catalog No.	Description	Catalog Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	4	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170144	Tool bucket large	2500
11	1	C4170146	Tool bucket small	2500
12	6	C4002320	Silicone spray	2500
13	2	PSC3090467	Nylon hoist	2500
14	2	C4001175	Hoist link stick	1100
15	1	T4001938	Transformer gin	1100
16	1	T4001708	Crossarm gin	1200
17	600'	C4000799	Composite braided rope	1200
18	1	T4001265	Fid & pusher	1250
19	2	22302	Snatch block, 1,000# capacity	NS
20	2	M1849	Hand line hook	1250
21	2	T4001258	Nylon blocks w/150' composite braid rope	1250
22	2	C4170589	Nylon sling 5' DT	1250
23	2	C4170139	Nylon sling 1¾" x 3'	NS
24	2	C4170140	Nylon sling 1¾" x 4'	1250
25	2	C4170141	Nylon sling 1¾" x 5'	1250
26	1	C3050008	Cant hook	1250
27	2	T161340H	Wire grip	1250
28	2	T16845H	Wire grip	1250
29	2	T165640H	Wire grip	1250
30	2	T165650H	Wire grip	1250
31	2	WPH3	Wire puller hook	1250
32	2	C4030293	Grip-all clampstick	1250
33	2	C4033068	Wire holding stick	2100
34	1	C4031022EM	Telescoping measuring disconnect	2100
35	2	H185525	Tie stick	2100
36	1	C4030185	All angle cog wrench	2100
37	1	T4033009	Torque extension stick for hydraulic powered tools	2100
38	1	C4031085	Socket set	2100
39	2	H17604	Universal pole	2100
40	2	M1860	Crossarm tool hanger	2100
41	1	C4031114	Universal tool kit	2100
42	1	M44559	Disconnect head	2100
43	1	M445519	Cotter key pusher	2100
44	1	M445523	Hack saw	2100
45	6	P4030369P	Hack saw blade	2100
46	1	C4032213	Pruning saw	2100
47	1	M445529B	Clamp stick head	2100
48	1	M445550	Skinning knife	2100
49	1	M445563	Cleaning brush	2100
50	1	M1899	Cleaning brush replacements	2100
51	1	T4031101	Adjustable insulator fork	2100
52	1	M445585	Hammer	2100
53	1	M445587	Ball socket adjuster	2100
54	1	C4030834	Hot Rodder, large	2100
				2100

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2605



15kV Hot Stick Work & Rubber Glove Work

Recommended Hot Line Tools List Page 2 of 2

Itama	01	Catalan Na	Description	Catalog
<u>Item</u>	Qty.	Catalog No.	Description	Section
55	1	C4031071	Hot Rodder, small	2100
56	1	C4032861	Hydraulic cutters	2150
57	1	H18716	Light duty cutters	2150
58	1	H21064	Tree trimmer	2150
59	2	H46458	Wire tong 1½" x 8'	2200
60	2	H464510	Wire tong 1½" x 10'	2200
61	4	H464712	Wire tong 2½" x 12'	2200
62	1	H464716	Wire tong 2½" x 16'	2200
63	4	M47403W	Wire tong saddle 1½"	2200
64	4	M47405W	Wire tong saddle 2½"	2200
65	3	C4000073	Wire tong saddle extension	2200
66	1	M17285	Wire tong pole clevis	2200
67	3	M4743	Wire tong block clamp	2200
68	2	M1846W	Rope snubbing bracket	2200
69	4	M18474	Extension chain	2200
70	2	M4744	Crossarm type saddle	2200
71	3	M4760W	Lever lift	2200
72	2	M47602	Arbor adapter	2200
73	1	C4001016	Epoxiglas® lever lift	2200
74	1	PSC4000075002	Dual auxiliary arm with four M48057 insulators and four C4000268 wireholders	NS
75	2	C4000517	Crossarm conductor support	2200
76	1	T4002272	Corner restraint bracket	2200
77	3	H47144	Roller link stick	2250
78	3	J1541511	Insulated jumper set 15'	2300
79	3	S16007	Insulated hanger	2300
80	3	PSC6010341	Temporary cutout tool	2300
81	8	C4060181GA	Conductor cover	2400
82	4	C4060182	Insulator cover	2400
83	4	M49371	Pole cover 9" x 1'	2400
84	4	M49372	Pole cover 9" x 2'	2400
85 86	3	M49376	Pole cover 9" x 6'	2400
	2 2	C4060097	Pole top cover	2400
87 88	2	C4060102 M4933	Crossarm end cover	2400
89	6	C4060084GA	Crossarm guard	2400
90	0 12	C4060084GA C4060305	Spiral cover Flexible line hose	2400
91	1	H1876	Phasing tester	2400 2450
92	1	C4033374	Auto-ranging voltage indicator	2450
93	6	C6001734	Ground clamp	3000
94	1	T6000641	Ground set	3000
95	1	T6000865	Grounding set storage bag	3000
96	1	C4170151	Line hose bag	2500
97	1	C4032980	Ratchet hand cutters	2150
98	1	H48628	Rubber glove auxiliary arm	2200
99	4	M48057	Insulators for item #100	2200
100	3	C4031631	Load pick up tool	2310
101	1	C4021164	Platform pivot for 4'	2357
102	1	C4021173	Platform pivot for 6'	2357
103	1	C4021055	Railing for 4'	2357
104	1	C4020023	Railing for 6'	2357
105	1	C4021042	Insulated 4' platform	2356
106	1	C4021043	Insulated 6' platform	2356
107	12	C4060305	Flexible line hose	2408
108	2	C4032999	Blanket canister	2513
109	4	C4060346	Blankets, solid	2409
110	4	C4060348	Blankets, slotted	2409
111	24	C4060530	Hot stick blanket pins	2409
112	6	C4002320	Silicone Spray	2513
		•		

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2606 November 2013



15kV Hot Stick, Rubber Glove & Underground Work

Recommended Hot Line Tools List Page 1 of 2

em	Qty.	Catalog No.	Description	Sec
l	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2
2	1	C4002365	Cleaning kit	2
	12	M1904	Wiping cloth	2
	1	C4033178	Hot stick tester	2
	1	H1917	Bond patching kit	2
,	2	C4002335	Dry film lubricant	2
7	4	H17605	Tool hanger	2
3	2	M4660	Tool rack	2
9	1	T3060025	Tarp	2
)	1	C4170144	Tool bucket large	2
	1	C4170146	Tool bucket small	2
2	6	C4002320	Silicone spray	2!
3	2	PSC3090467	Nylon hoist	1
1	2	C4001175	Hoist link stick	1
	1	T4001938	Transformer gin	1.
5	1	T4001708	Crossarm gin	1.
7	600'	C4000799	Composite braided rope	12
3	1	T4001265	Fid & pusher	1
9	2	22302	Snatch block, 1,000# capacity	1.
)	2	M1849	Hand line hook	1.
1 2	2	T4001258 C4170589	Nylon blocks w/150' composite braid rope	12
<u> </u>	2		Nylon sling 5' DT	1 12
)]	2	C4170139 C4170140	Nylon sling 1¾ x 3'	12
5	2	C4170140 C4170141	Nylon sling 1¾" x 4'	12
5	1	C3050008	Nylon sling 1¾" x 5' Cant hook	12
7	2	T161340H		12
3	2	T16845H	Wire grip Wire grip	12
)	2	T165640H	Wire grip	12
)	2	T165650H	Wire grip	12
ĺ	2	WPH3	Wire puller hook	12
2	2	C4030293	Grip-all clampstick	2
3	2	C4033068	Wire holding stick	2
4	1	C4031022EM	Telescoping measuring disconnect	2
5	2	H185525	Tie stick	2
5	1	C4030185	All angle cog wrench	2
7	1	T4033009	Torque extension stick for hydraulic powered tools	2
3	1	C4031085	Socket set	2
)	2	H17604	Universal pole	2
)	2	M1860	Crossarm tool hanger	2
	1	C4031114	Universal tool kit	2
2	1	M44559	Disconnect head	21
3	1	M445519	Cotter key pusher	21
1	1	M445523	Hack saw	2
5	6	P4030369P	Hack saw blade	2
5	1	C4032213	Pruning saw	2
7	1	M445529B	Clamp stick head	2
3	1	M445550	Skinning knife	2
)	1	M445563	Cleaning brush	2
)	1	M1899	Cleaning brush replacements	2
	1	T4031101	Adjustable insulator fork	2
2	1	M445585	Hammer	2
3	1	M445587	Ball socket adjuster	2
1	1	C4030834	Hot Rodder, large	2
5	1	C4031071	Hot Rodder, small	2
6	1	C4032861	Hydraulic cutters	21
7	1	H18716	Light duty cutters	21
3	1 2	H21064	Tree trimmer	21
9		H46458	Wire tong 1½" x 8'	22

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2607



15kV Hot Stick, Rubber Glove & Underground Work

Recommended Hot Line Tools List Page 2 of 2 Catalog Item Qty. Catalog No. Description Section 61 4 H464712 Wire tong 21/2" x 12' 2200 Wire tong 2½" x 16' 62 1 H464716 2200 M47403W 63 Wire tong saddle 1½" 2200 64 4 M47405W Wire tong saddle 2½" 2200 3 C4000073 2200 65 Wire tong saddle extension 66 1 M17285 Wire tong pole clevis 2200 67 3 M4743 Wire tong block clamp 2200 2 M1846W Rope snubbing bracket 68 2200 69 4 M18474 2200 Extension chain 70 2 M4744 2200 Crossarm type saddle 71 3 M4760W Lever lift 2200 2200 72 2 M47602 Arbor adapter 73 C4001016 1 Epoxiglas® lever lift 2200 74 PSC4000075002 1 Dual auxiliary arm with four M48057 insulators and four C4000268 N/S wireholders 75 2 C4000517 Crossarm conductor support 2200 76 1 T4002272 Corner restraint bracket 2200 77 H47144 3 Roller link stick 2250 78 3 J1541511 Insulated jumper set (15 ft.) 2300 79 3 S16007 Insulated hanger 2300 80 3 PSC6010341 Temporary cutout tool 2300 81 8 C4060181GA Conductor cover 2400 82 C4060182 2400 Insulator cover 83 4 Pole cover 9" x 1' 2400 M49371 84 4 M49372 Pole cover 9" x 2' 2400 85 3 M49376 Pole cover 9" x 6" 2400 2 86 C4060097 Pole top cover 2400 87 2 C4060102 2400 Crossarm end cover 2 2400 88 M4933 Crossarm quard 89 6 C4060084GA Spiral cover 2400 90 12 C4060305 2400 Flexible line hose 91 1 H1876 Phasing tester 2450 92 1 C4033374 Auto-ranging voltage indicator 2450 93 T6000641 3010 1 Ground set 94 T6000865 Grounding set storage bag 3000 1 95 C4170151 Line hose bag 2500 96 1 C4032980 Ratchet hand cutters 2150 97 H48628 Rubber glove auxiliary arm 2200 1 98 Insulators for item #100 2200 M48057 99 3 C4031631 Load pick up tool 2300 100 1 C4021164 Platform pivot for 4' 2350 102 1 C4021173 Platform pivot for 6' 2350 103 1 C4021055 Railing for 4' 2350 104 C4020023 2350 1 Railing for 6' 105 1 C4021042 Insulated 4' platform 2350 106 1 C4021043 Insulated 6' platform 2350 107 C4060305 2400 12 Flexible line hose 108 C4032999 2500 2 Blanket canister 109 4 C4060346 2400 Solid blankets C4060348 2400 110 4 Slotted blankets C4060531 2400 111 24 Hot stick blanket pins 112 2 C4031822 Elbow puller 2100 113 2 C4030704 Grippers 15 kV 2100 114 C4031762 2450 1 D.C. Hipot adapter 115 2 T4030428 **Bushing adapter** 2450 116 T4030602 Elbow adapter 2450 1 117 C4030803 2450 1 Energized cable sensor 118 C4030547 2450 1 Line/Fault Locator 119 T6002233 Penetrator clamp with ground set 3000 1 120 2 C6000759 Temporary underground ground set 3000 T6003091 Grounded parking stand 3000 121 2 122 2 C6000729 Grounding elbow 3000 123 Storage bag for items #122-123-124 3000 2 T6000865

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2608 November 2013



25kV Rubber Glove Work from an Insulated Platform Board

Recommended Hot Line Tools List Page 1 of 1 Catalog **Item** Qty. Catalog No. Description Section 1 2 Epoxiglas® insulated platform 4' 2350 C4021043 2 2 C4020023 Railing for 6' platform 2350 3 2 Pivot for 6' platform C4021173 2350 4 1 C4002365 Cleaning kit 2500 5 12 M1904 Wiping cloth 2500 2 6 Dry film lubricant C4002335 2500 2 7 M4660 Tool racks 2500 8 1 T3060025 Tarp 2500 9 1 C4170151 Line hose bag 2500 10 1 C4170144 Tool bucket large 2500 11 1 C4170146 Tool bucket small 2500 2 12 C4032999 Blanket canister 2500 6 13 C4002320 Silicone spray 2500 14 4 2400 C4060346 Blanket, solid 4 15 C4060348 Blanket, slotted 2400 16 24 C4060530 Blanket pin 2400 2 17 Nylon hoist PSC3090323 1100 2 18 C4002399 Hoist link stick 1100 19 1 T4001938 Transformer gin 1200 20 1 T4001708 Crossarm gin 1200 21 300' C4000799 Composite braided rope 1/2" 1250 22 1 Fid & pusher NS T4001265 2 23 Snatch block 22302 2250 2 24 C4170139 Nylon sling 1250 2 25 C4170140 Nylon sling 1250 2 26 Wire grip 1250 T161340H 2 27 Wire grip 1250 T16845H 2 28 Wire grip 1250 T165640H 2 29 Grip All clampstick C4030293 2100 1 30 C4033068 Wire holding stick 2100 1 31 C4032980 Ratchet cable cutter 2150 2 32 M47405W Wire tong saddles 2200 13 33 M48057 Insulators 2200 1 34 Rubber glove arm 2200 H48628 35 1 H480060 Extension arm 2200 36 1 Extension arm 2200 H480072 2 37 C4000517 Temporary crossarm conductor support 2200 2 38 T4001939 Pole mounted conductor support 2200 39 1 T4002272 Corner restraint bracket 2200 3 40 H47144 Roller link stick 2250 41 3 Insulated jumper set 25kV 15' long J2521522 NS 42 3 Insulated hanger 2300 S16007 3 Tension puller switching tool 43 C4001907 2300 3 Tie back clamp 44 C4000600 2250 45 3 Insulator hood 2400 P4060185 12 46 C4060308 Flexible line hose 2400 24 47 M4933 Crossarm guard 2400 2 48 C4060102 Crossarm end guard 2400 2 49 Pole cover 9" x 1' 2400 M49371 2 50 Pole cover 9" x 2' 2400 M49372 2 51 Pole cover 9" x 6' M49376 2400 2 52 C4060097 Pole top cover 2400 53 1 T4032261 Phasing tester set 2450

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2609



CHANCE25kV Rubber Glove Work from an Insulated Bucket Truck

		d Hot Line Tools Li	st Page 1 of 1	Catalog
Item	Qty.	Catalog No.	Description	Section
				
1	1	C4002365	Cleaning kit	2500
2	12	M1904	Wiping cloth	2500
3	2	C4002335		2500
			Dry film lubricant	
4	2	M4660	Tool racks	2500
5	1	T3060025	Tarp	2500
6	1	C4170151	Line hose bag	2500
7	1	C4170144	Tool bucket large	2500
8	1	C4170146	Tool bucket small	2500
9	2	C4032999	Blanket canister	2500
10	4	C4060346	Blanket, solid	2400
11	4	C4060348	Blanket, slotted	2400
12	24	C4060530	Blanket pin	2400
13	6	C4002320	Silicone lubricant	2500
14	2	PSC3090451	Nylon hoist $\frac{3}{4} + \frac{1}{2}$ ton	1100
15	2	C4001175	Hoist link stick	1100
16	1	T4001938	Transformer gin	1200
17	1	T4001708	Crossarm gin	1200
18	300'	C4000799	Composite braided rope ½"	1250
19	1	T4001265	Fid & pusher	NS
20	2	22302	Snatch block	1250
21	2	M1849	Hand line hook	1250
22	2	C4170589	Nylon sling 1¾" x 5' DT	NS
23	2	C4170139	Nylon sling 1¾" x 3'	1250
24	2	C4170140	Nylon sling 1¾" x 4'	1250
25	2	C4170141	Nylon sling 1¾" x 5'	1250
26	2	T161340H	Wire grip	1250
27	2	T16845H	Wire grip	1250
28	2	T165640H	Wire grip	1250
29	2	C4030293	Grip All clampstick	2100
30	1	C4033068	Wire holding stick	2100
31	1	C4032980	Ratchet cable cutter	2150
32	2	M47405W	Wire tong saddle	2200
33	1	H48628	Rubber glove auxiliary arm	2200
34	1	H480060	Extension arm	2200
35	1	H480072	Extension arm	2200
36	2	C4000517	Crossarm conductor support	2200
37	1	T4001939	Temporary conductor support	2200
38	11	M48057	Insulators	2200
39	1	T4002272	Corner restraint bracket	2200
40	3	H47144	Roller link stick	2250
41	3	J2521522	Insulated jumper set 25kV – 15' long	NS
42	3	S16007	Insulated hanger	2300
43	3	PSC6010342	Temporary cutout	2300
44	2	M49371	Pole cover 9" x 1'	2400
45	2	M49372	Pole cover 9" x 2'	2400
46	2	M49376	Pole cover 9" x 6'	2400
47	2	C4060097	Pole top cover	2400
48	2	C4060102	Crossarm end guard	2400
49	2	M4933	Crossarm guard	2400
50	15	C4060305	Flexible line hose 20kV	2400
51	15	C4060308	Flexible line hose 30kV	2400
52	12	P4060185	Insulator hood	2400
53	1	T4032261	Phasing tester set	2450

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2610 November 2013



35kV Rubber Glove Work from an Insulated Platform Board

		d Hot Line Tools Lis	e vvoik iloili ali ilisulateu Pia st Page 1 of 1	Catalog
Item	Qty.	Catalog No.	Description	Section
1	2	C4021042	Epoxiglas® insulated platform 4'	2350
2	2	C4021055	Railing for 4' platform	2350
3	2	C4021164	Pivot for 4' platform	2350
4	1	C4002365	Cleaning kit	2500
5	12	M1904	Wiping cloth	2500
6	2	C4002335	Dry film lubricant	2500
7	2	M4660	Tool racks	2500
8	1	T3060025	Tarp	2500
9	1	C4170151	Line hose bag	2500
10	1	C4170144	Tool bucket large	2500
11	1	C4170146	Tool bucket small	2500
12	2	C4032999	Blanket canister	2500
13	6	C4002320	Silicone spray	2500
14	4	C4060346	Blanket, solid	2400
15	4	C4060348	Blanket, slotted	2400
16	24	C4060530	Blanket pin	2400
17	2	PSC3090323	Nylon hoist	1100
18	2	C4002399	Hoist link stick	1100
19	1	T4001938	Transformer gin	1200
20	1	T4001708	Crossarm gin	1200
21	300'	C4000799	Composite braided rope ½"	1250
22	1	T4001265	Fid & pusher	NS
23	2	22302	Snatch block	2250
24	2	C4170139	Nylon sling	1250
25	2	C4170140	Nylon sling	1250
26	2	T161340H	Wire grip	1250
27	2	T16845H	Wire grip	1250
28	2	T165640H	Wire grip	1250
29	2	C4030293	Grip All clampstick	2100
30	1	C4033068	Wire holding stick	2100
31	1	C4032980	Ratchet cable cutter	2150
32	2	M47405W	Wire tong saddle	2200
33	13	M48057	Insulators	2200
34	1	H48628	Rubber glove arm	2200
35	1	H480060	Extension arm	2200
36	1	H480072	Extension arm	2200
37	2	C4000517	Temporary crossarm conductor support	2200
38	2	T4001939	Pole mounted conductor support	2200
39	1	T4002272	Corner restraint bracket	2200
40	3	H47144	Roller link stick	2250
41	3	J3511533	Insulated jumper set 15'	2300
42	3	S16007	Insulated hanger	2300
43	3	C4000574	Tension puller	2250
44	3	C4000600	Tie back clamp	2250
45	12	C4060557	Insulator hood	2400
46	24	C4060342	Flexible line hose	2400
47	2	M4933	Crossarm guard	2400
48	2	C4060102	Crossarm end guard	2400
49	2	M49371	Pole cover 9" x 1'	2400
50	2	M49372	Pole cover 9" x 2'	2400
51	2	M49376	Pole cover 9" x 6'	2400
52	2	C4060097	Pole top cover	2400
53	12	C4060340	Coupler	2400
54	1	H1876	Phasing tester set	2450
55	1	H18764	Extension resistors	2450

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



November 2013



15, 25 & 35kV Hot Stick Work only

Recommended Hot Line Tools List Page 1 of 2					
itecon	illicitae			Catalog	
Item	Qty.	Catalog No.	Description	Section	
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500	
2	1	C4002365	Cleaning kit	2500	
3	12	M1904	Wiping cloth	2500	
4	1	C4033178	Hot stick tester	2500	
5	1	H1917	Bond patching kit	2500	
6	2	C4002335	Dry film lubricant	2500	
7	5	H17605	Tool hanger	2500	
8	2	M4660	Tool rack	2500	
9	1	T3060025	Tarp	2500	
10	1	C4170151	Line hose bag	2500	
11	6	C4002320	Silicone spray	2500	
12	1	C4170144	Tool bucket large	2500	
13	i	C4170144	Tool bucket small	2500	
14	2	C4032999	Blanket canister	2500	
15	2	PSC3090467	Nylon hoist	1100	
16	2	C4001175	Hoist link stick 12"	1100	
17	2	C4002399	Hoist link stick 18"	1100	
18	1	T4001938	Transformer gin	1200	
19	i	T4001708	Crossarm gin	1200	
20	600'	C4000799	Composite braided rope ½"	1250	
21	1	T4001265	Fid & pusher	NS	
22	2	T4001253	Nylon blocks w/150' composite braid rope	1250	
23	2	22302	Snatch block, 1,000# capacity	1250	
24	2	M1849	Hand line hook	1250	
25	2	C4170589	Nylon sling 5' x 1 ³ / ₄ " DT	NS	
26	2	C4170303	Nylon sling 3' x 1 ³ / ₄ "	1250	
27	2	C4170133	Nylon sling 4' x 1 ³ / ₄ "	1250	
28	2	C4170140	Nylon sling 5' x 1 ³ / ₄ "	1250	
29	1	C3050008	Cant hook	1250	
30	2	WPH3	Wire puller hook	1250	
31	2	T161340H	Wire grip	1250	
32	2	T16845H	Wire grip	1250	
33	2	T165640H	Wire grip	1250	
34	2	T165650H	Wire grip	1250	
35	2	C4030293	Grip-all clampstick	2100	
36	2	C4033068	Wire holding stick	2100	
37	1	C4031022EM	Telescoping measuring disconnect	2100	
38	2	H185525	Tie stick	2100	
39	1	C4030185	All angle cog wrench	2100	
40	1	T4033009	Torque extension stick for hydraulic powered tools	2100	
41	1	C4031085	Socket set	2100	
42	2	H17604	Universal pole	2100	
43	2	M1860	Crossarm tool hanger	2100	
44	1	C4031114	Universal tool kit	2100	
45	i	M44559	Disconnect head	2100	
46	1	M445523	Hack saw	2100	
47	6	P4030369P	Hack saw blade	2100	
48	1	C4032213	Pruning saw	2100	
49	1	M445529B	Clampstick head	2100	
50	i	M445550	Skinning knife	2100	
51	i	M445563	Cleaning brush	2100	
52	1	M1889	Cleaning brush replacements	2100	
53	1	T4031101	Adjustable insulator fork	2100	
			•		

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2612 November 2013



15, 25 & 35kV Hot Stick Work only Recommended Hot Line Tools List Page 2 of 2

Catalog

Item	Qty.	Catalog No.	Description	Section
				2400
54	1	C4030175	Plastic insulator tool	2100
55	1	C4030834	Hot Rodder, large	2100
56	1	C4031071	Hot Rodder, small	2100
57	1	C4031416	Tie wire claw	2100
58	1	C4031417	Utility head	2100
59	1	C4032861	Hydraulic cutters	2150
60	1	H18716	Hot cutter light duty	2150
61 62	1	H21064	Tree trimmer	2150
62 63	2 2	H46458	Wire tong 1½" x 8'	2200 2200
64	4	H464510	Wire tong 1½" x 10'	2200
65	•	H464712	Wire tong 2½" x 12'	2200
66	1	H464716	Wire tong 2½" x 16'	
67	4 4	M47403W	Wire tong saddle 1½"	2200
		M47405W	Wire tong saddle 2½"	2200
68 69	4 4	C4000073	Saddle extension	2200
70	·=	M4743	Wire tong block clamp	2200
70 71	1	M17285	Wire tong pole clevis	2200
71 72	4	M18474	Extension chain	2200
72 73	2	M1846W	Rope snubbing bracket	2200
73 74	3	M4760W	Lever lift	2200
	1	C6001016	Epoxiglas® lever lift	2200
75 76	2	M47602	Arbor adapter	2200
76	1	PSC4000075002	Dual auxiliary arm with four M48057 insulators and four	N/S
77	2	C4000E17	C4000268 roller wire holders	2200
77 70	2	C4000517	Temporary crossarm support	2200
78 70	2	M48057	Insulator	2200
79	1	T4002272 H47144	Corner restraint bracket	2200
80	3 2		Roller link stick	2250
81 82		C4000574	Hot stick tension puller	2250 N/S
83	3 3	J1541502 J3511502	Insulated jumper set (15 ft.)	N/S N/S
84	3		Insulated jumper set (15 ft.)	2300
85	3	S16007 C4031631	Insulated hanger	2300
86	3	PSC6010342	Load pick up tool	2300
87	12	C4060181GA	Temporary cutout Conductor cover	2400
88	6	C4060181GA C4060182	Insulator cover	2400
89	4	M49371	Pole cover 9" x 1'	2400
90	4	M49372	Pole cover 9" x 2'	2400
91	3	M49376	Pole cover 9" x 6'	2400
92	2	C4060097	Pole top cover	2400
93	2	C4060102	Crossarm end cover	2400
94	2	M4933	Crossarm quard	2400
95	12	C4060084GA	Spiral cover	2400
96	6	C406004GA	Insulator cover	2400
97	12	C4060305	Flexible cover	2400
98	1	H18761	Phasing tester	2450
99	1	H18764	Extension resistors	2450
100	1	C4033374	Auto-ranging voltage indicator	2450
101	i	T6000641	Ground set	3000
102	i	T6000865	Storage bag for ground set	3000
102	4	C4060346	Blanket, solid	2400
103	4	C4060348	Blanket, slotted	2400
105	24	C4060531	Hot stick blanket pin	2400
. 55	- ⊤	C 1000551	The street blutthee pill	2700

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2613



15, 25 & 35kV Hot Stick & Rubber Glove Work

Recommended Hot Line Tools List Page 1 of 2				
<u>Item</u>	Qty.	Catalog No.	Description	Catalog Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	5	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170151	Line hose bag	2500
11	6	C4002320	Silicone spray	2500
12	1	C4170144	Tool bucket large	2500
13	1	C4170146	Tool bucket small	2500
14	2	C4032999	Blanket canister	2500
15	2	PSC3090467	Nylon hoist	1100
16	2	C4001175	Hoist link stick 12"	1100
17	2	C4002399	Hoist link stick 18"	1100
18 19	1 1	T4001938 T4001708	Transformer gin Crossarm gin	1200 1200
20	600'	C4007708	Composite braided rope 1/2"	1250
21	1	T4001265	Fid & pusher	NS
22	2	T4001258	Nylon blocks w/150' composite braid rope	1250
23	2	22302	Snatch block, 1,000# capacity	1250
24	2	M1849	Hand line hook	1250
25	2	C4170589	Nylon sling 5' x 1¾" DT	NS
26	2	C4170139	Nylon sling 3' x 1¾"	1250
27	2	C4170140	Nylon sling 4' x 1 ³ / ₄ "	1250
28	2	C4170141	Nylon sling 5' x 1¾"	1250
29	1	C3050008	Cant hook	1250
30	2	WPH3	Wire puller hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34	2	T165650H	Wire grip	1250
35 36	2	C4030293	Grip-all clampstick	2100 2100
37	2 1	C4033068 C4031022EM	Wire holding stick Telescoping measuring disconnect	2100
38	2	H185525	Tie stick	2100
39	1	C4030185	All angle cog wrench	2100
40	1	T4033009	Torque extension stick for hydraulic powered tools	2100
41	1	C4031085	Socket set	2100
42	2	H17604	Universal pole	2100
43	2	M1860	Crossarm tool hanger	2100
44	1	C4031114	Universal tool kit	2100
45	1	M44559	Disconnect head	2100
46	1	M445523	Hack saw	2100
47	6	P4030369P	Hack saw blade	2100
48	1	C4032213	Pruning saw	2100
49	1	M445529B	Clampstick head	2100
50	1	M445550	Skinning knife	2100
51	1	M445563	Cleaning brush	2100
52	1	M1889	Cleaning brush replacements	2100
53	1	T4031101	Adjustable insulator fork	2100
54	1	C4030175	Plastic insulator tool	2100
55 56	1	C4030834	Hot Rodder, large	2100
56 57	1 1	C4031071	Hot Rodder, small	2100 2100
57 58	1	C4031416 C4031417	Tie wire claw Utility head	2100
59	1	C4031417 C4032861	Hydraulic cutters	2150
60	1	H18716	Hot cutter light duty	2150
	•		catter ngitt daty	

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2614 November 2013



15, 25 & 35kV Hot Stick & Rubber Glove Work Recommended Hot Line Tools List Page 2 of 2

Recommended Hot Line Tools List

recoll	menue	a not line loois lis	rage 2 of 2	Catalog
Item	Qty.	Catalog No.	Description	Section
61	1	H21064	Tree trimmer	2150
62	2	H46458	Wire tong 1½" x 8'	2200
63	2	H464510	Wire tong 1½" x 10'	2200
64	4	H464712	Wire tong 2½" x 12'	2200
65	1	H464716	Wire tong 2½" x 16'	2200
66	4	M47403W	Wire tong saddle 1½"	2200
67	4	M47405W	Wire tong saddle 2½"	2200
68	4	C4000073	Saddle extension	2200
69	4	M4743	Wire tong block clamp	2200
70	1	M17285	Wire tong pole clevis	2200
71 72	4	M18474	Extension chain	2200
72 73	2 3	M1846W	Rope snubbing bracket	2200 2200
73 74	3 1	M4760W C4001016	Lever lift Epoxiglas® lever lift	2200
7 4 75	2	M47602	Arbor adapter	2200
75 76	1	PSC4000075002	Dual auxiliary arm with four M48057 insulators and four C4000268	N/S
70	'	F3C4000073002	roller wire holders	14/3
77	2	C4000517	Temporary crossarm support	2200
78	2	M48057	Insulator	220
79	1	T4002272	Corner restraint bracket	2200
80	3	H47144	Roller link stick	2250
81	2	C4000574	Hot stick tension puller	2250
82	3	J1541522	Jumper set 15kV (15 ft.)	NS
83	3	J3511533	Jumper set 35kV (15 ft.)	NS
84	3	S16007	Insulated hanger	2300
85	3	C4031631	Load pick up tool	2300
86	3	PSC6010342	Temporary cutout	2300
87	12	C4060181GA	Conductor cover	2400
88	6	C4060182	Insulator cover	2400
89	4	M49371	Pole cover 9" x 1'	2400
90	4	M49372	Pole cover 9" x 2'	2400
91	3	M49376	Pole cover 9" x 6'	2400
92	2	C4060097	Pole top cover	2400
93	2	C4060102	Crossarm end cover	2400
94	2 12	M4933	Crossarm guard	2400
95 96	6	C4060084GA	Spiral cover Insulator cover	2400 2400
96 97	12	C4060046 C4060305	Flexible cover	2400
98	1	H18761	Phasing tester	2450
99	1	H18764	Extension resistors	2450
100	1	C4033374	Auto-ranging voltage indicator	2450
101	12	C6001734	Ground clamp	3000
102	1	T6000641	Ground set	3000
103	1	T6000865	Storage bag for ground set	3000
104	4	C4060346	Blanket, solid	2400
105	4	C4060348	Blanket, slotted	2400
106	24	C4060530	Hot stick blanket pin	2400
107	1	C4032980	Ratchet hand cutters	2150
108	1	H48628	Rubber glove auxiliary arm	2200
109	4	M48057	Insulator	2200
110	1	C4021042	Insulated 4' platform	2350
111	1	C4021043	Insulated 6' platform	2350
112	1	C4021055	Railing for 4' platform	2350
113	1	C4020023	Railing for 6' platform	2350
114	1	C4021164	Pivot for 4' platform	2350
115	1	C4021173	Pivot for 6' platform	2350
116	12	C4060308	Flexible line hose 30kV	2400
117	12	C4060342	Extended lip flexible line hose	2400
118	6	C4060340	Coupler Het line applicator tool	2400
119	1	C4032505	Hot line applicator tool	2100
120 121	1 1	C4032506	Hot line applicator tool Hot line applicator tool	2100 2100
121	'	C4032507	The time applicator tool	2100

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013



Page 2615



15, 25 & 35kV Hot Stick, Rubber Glove & Underground Work

Recor	nmende	Hot Line Tools List	t Page 1 of 2	Catalog
Item	Qty.	Catalog No.	Description	Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5 6	1	H1917	Bond patching kit	2500
7	2 5	C4002335 H17605	Dry film lubricant Tool hanger	2500 2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170151	Line hose bag	2500
11	6	C4002320	Silicone spray	2500
12	1	C4170144	Tool bucket, large	2500
13 14	1 2	C4170146 C4032999	Tool bucket, small Blanket canister	2500 2500
15	2	PSC3090467	Nylon hoist	1100
16	2	C4001175	Hoist link stick 12"	1100
17	2	C4002399	Hoist link stick 18"	1100
18	1	T4001938	Transformer gin	1200
19	1	T4001708	Crossarm gin	1200
20	600'	C4000799	Composite braided rope ½"	1250
21 22	1 2	T4001265 T4001258	Fid & pusher ½" Nylon blocks w/150' composite braid rope	NS 1250
23	2	22302	Snatch block, 1,000# capacity	1250
24	2	M1849	Hand line hook	1250
25	2	C4170589	Nylon sling 5' x 1¾" DT	NS
26	2	C4170139	Nylon sling 3' x 1¾"	1250
27	2	C4170140	Nylon sling 4' x 1¾"	1250
28 29	2 1	C4170141 C3050008	Nylon sling 5' x 1¾" Cant hook	1250 1250
30	2	WPH3	Wire puller hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34 35	2	T165650H	Wire grip	1250
36	2 2	C4030293 C4033068	Grip-āll clampstick Wire holding stick	2100 2100
37	1	C4031022EM	Telescoping measuring disconnect	2100
38	2	H185525	Tie stick	2100
39	1	C4030185	All angle cog wrench	2100
40	1	T4033009	Torque extension stick for hydraulic powered tools	2100
41 42	1 2	C4031085 H17604	Socket set	2100 2100
42	2	M1860	Universal pole Crossarm tool hanger	2100
44	1	C4031114	Universal tool kit	2100
45	1	M44559	Disconnect head	2100
46	1	M445523	Hack saw	2100
47	6	P4030369P	Hack saw blade	2100
48 49	1 1	C4032213 M445529B	Pruning saw Clampstick head	2100 2100
50	1	M445550	Skinning knife	2100
51	i	M445563	Cleaning brush	2100
52	1	M1889	Cleaning brush replacements	2100
53	1	T4031101	Adjustable insulator fork	2100
54 55	1 1	C4030175	Plastic insulator tool	2100
56	1	C4030834 C4031071	Hot Rodder, large Hot Rodder, small	2100 2100
57	1	C4031071 C4031416	Tie wire claw	2100
58	i	C4031417	Utility head	2100
59	1	C4032861	Hydraulic cutters	2150
60	1	H18716	Hot cutter light duty	2150
61 62	1 2	H21064	Tree trimmer	2150 2200
62	2	H46458 H464510	Wire tong 1½" x 8' Wire tong 1½" x 10'	2200
64	4	H464712	Wire tong 1/2 x 10 Wire tong 2½" x 12'	2200
65	1	H464716	Wire tong $2\frac{1}{2}$ " x 16'	2200
66	4	M47403W	Wire tong saddle 1½"	2200

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2616 November 2013



15, 25 & 35kV Hot Stick, Rubber Glove & Underground Work

		d Hot Line Tools Lis Catalog No.	t Page 2 of 2 Description	Catalog Section
67	4	M47405W	Wire tong saddle 2½"	2200
68	4	C4000073	Saddle extension	2200
69	4	M4743	Wire tong block clamp	2200
70	i	M17285	Wire tong pole clevis	2200
71	4	M18474	Extension chain	2200
72	2	M1846W	Rope snubbing bracket	2200
73	3	M4760W	Lever lift	2200
74	1	C4001016	Epoxiglas® lever lift	2200
75 76	2 1	M47602 PSC4000075002	Arbor adapter Dual auxiliary arm with four M48057 insulators and four C4000268 roller wire holders	2200 N/S
77	2	C4000517	Temporary crossarm support	2200
78	2	M48057	Insulators	2200
79	1	T4002272	Corner restraint bracket	2200
80	3	H47144	Roller link stick	2250
81	3 2 3 3 3	C4000574	Hot stick tension puller	2250
82 83	3	J1541522	Jumper set 15kV (15 ft.) Jumper set 35kV (15 ft.)	NS NS
84	2	J3511522 S16007	Insulated hanger	2300
85	3	C4031631	Load pick up tool	2300
86	3	PSC6010342	Temporary cutout	2300
87	12	C4060181GA	Conductor cover	2400
88	6	C4060182	Insulator cover	2400
89	4	M49371	Pole cover 9" x 1'	2400
90	4	M49372	Pole cover 9" x 2'	2400
91	3 2	M49376	Pole cover 9" x 6'	2400
92 93	2	C4060097	Pole top cover	2400 2400
93	2	C4060102 M4933	Crossarm end cover Crossarm guard	2400
95	12	C4060084GA	Spiral cover	2400
96	6	C4060046	Insulator cover	2400
97	12	C4060305	Flexible cover 20kV	2400
98	1	H18761	Phasing tester	2450
99	1	H18764	Extension resistors	2450
100	1	C4033374	Auto-ranging voltage indicator	2450
101 102	12 1	C6001734 T6000641	Ground clamp Ground set	3000 3000
103	i	T6000865	Storage bag for ground set	3000
104	4	C4060346	Blanket, solid	2400
105	4	C4060348	Blanket, slotted	2400
106	24	C4060530	Hot stick blanket pin	2400
107	1	C4032980	Ratchet hand cutters	2150
108 109	1 4	H48628 M48057	Rubber glove auxiliary arm Insulator	2200 2200
110	1	C4021042	Insulated 4' platform	2350
111	i	C4021043	Insulated 6' platform	2350
112	1	C4021055	Railing for 4' platform	2350
113	1	C4020023	Railing for 6' platform	2350
114	1	C4021164	Pivot for 4' platform	2350
115	1	C4021173	Pivot for 6' platform	2350
116 117	12 12	C4060308 C4060342	Flexible line hose 30kV Extended lip flexible line hose	2400 2400
118	6	C4060342 C4060340	Coupler	2400
119	ĭ	C4032505	Hot line applicator tool	2100
120	1	C4032506	Hot line applicator tool	2100
121	1	C4032507	Hot line applicator tool	2100
122	1	C4031762	DC Hipot adapter	2450
123	1	C4031763	DC Hipot adapter	2450
124 125	1 2	T4030602 T4030428	Elbow adapter 15kV Bushing adapter 15kV	2450 2450
125	2	T4030428	Bushing adapter 15kV Bushing adapter 15-25-35kV	2450
127	1	T4030856	Elbow adapter 15-25-35kV	2450
128	i	C4030803	Energized cable sensor	2450
129	1	C4030547	Line/Fault locator	2450
130	1	T6002233	Penetrator clamp & ground set	3000
131	3	C6000729	Underground distribution ground set 15kV	3000
132	3	T6002131	Underground distribution ground set 25kV	3000
133 134	3	C6001927	Underground distribution ground set 35kV Grounded parking stand 15kV	3000 3000
134	3	T6003091 T6003092	Grounded parking stand 15kV Grounded parking stand 25kV	3000
	3	. 3003032	C. Saada parking staria ESKV	3000

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

HUBBELL

November 2013 Page 2617



15 thru 69kV, 477kcmil & smaller, Hot Stick Work only

Recor Item	mmende Qty.	d Hot Line Tools List Catalog No.	Page 1 of 2 Description	Catalog Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	5	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	i	C4170151	Line hose bag	2500
11	6	C4002320	Silicone spray	2500
12	1	C4170144	Tool bucket, large	2500
13	1	C4170144	Tool bucket, small	2500
14	2			2500
15	2	C4032999 PSC3090467	Blanket canister	1100
	2		Nylon hoist	
16		C4001175	Hoist link stick 12"	1100
17	2	C4002399	Hoist link stick 18"	1100
18	1	T4001938	Transformer gin	1200
19	1	T4001708	Crossarm gin	1200
20	600'	C4000799	Composite braided rope ½"	1250
21	1	T4001265	Fid & pusher ½"	NS
22	2	T4001258	Nylon blocks w/150' composite braid rope	1250
23	2	22302	Snatch block, 1,000# capacity	1250
24	2	M1849	Hand line hook	1250
25	2	C4170589	Nylon sling 5' x 1¾" DT	NS
26	2	C4170139	Nylon sling 3' x 1¾"	1250
27	2	C4170140	Nylon sling 4' x 1¾"	1250
28	2	C4170141	Nylon sling 5' x 1¾"	1250
29	1	C3050008	Cant hook	1250
30	2	WPH3	Wire puller hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34	2	T165650H	Wire grip	1250
35	2	C4030293	Grip-all clampstick	2100
36	2	C4033068	Wire holding stick	2100
37	1	C4031022EM	Telescoping measuring disconnect	2100
38	2	H185525	Tie stick	2100
39	1	C4030185	All angle cog wrench	2100
40	1	T4033009	Torque extension stick for hydraulic powered tools	2100
41	1	C4031085	Socket set	2100
42	2	H17604	Universal pole	2100
43	2	M1860	Crossarm tool hanger	2100
44	1	C4031114	Universal tool kit	2100
45	1	M44559	Disconnect head	2100
46	1	M445523	Hack saw	2100
47	6	P4030369P	Hack saw blade	2100
48	1	C4032213	Pruning saw	2100
49	1	M445529B	Clampstick head	2100
50	1	M445550	Skinning knife	2100
51	i 1	M445563	Cleaning brush	2100
52	1	M1889	Cleaning brush replacements	2100
53	1	T4031101	Adjustable insulator fork	2100
54	i 1	C4030175	Plastic insulator tool	2100
	•	- · · · · ·		

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2618 November 2013



15 thru 69kV, 477kcmil & smaller, Hot Stick Work only

		_	t Days 2 of 2	y Catalog
Item	nmenae Qty.	d Hot Line Tools Lis Catalog No.	t Page 2 of 2 Description	Section
	Qty.		Description	
55	1	C4030834	Hot Rodder, large	2100
56	1	C4031071	Hot Rodder, small	2100
57	1	C4031416	Tie wire claw	2100
58	1	C4031417	Utility head	2100
59 60	1 1	C4032861 H18716	Hydraulic cutters Het cutter light duty	2100 2100
61	1	H21064	Hot cutter light duty Tree trimmer	2100
62	2	H46458	Wire tong 1½" x 8'	2200
63	2	H464510	Wire tong 1½" x 10'	2200
64	4	H464712	Wire tong 2½" x 12'	2200
65	1	H464716	Wire tong 2½" x 16'	2200
66	4	M47403W	Wire tong saddle 1½"	2200
67	4	M47405W	Wire tong saddle 2½"	2200
68	4	C4000073	Saddle extension	2200
69	4	M4743	Wire tong block clamp	2200
70	1	M17285	Wire tong pole clevis	2200
71	6	M18474	Extension chain	2200
72	2	M1846W	Rope snubbing bracket	2200
73	3	M4760W	Lever lift	2200
74	1	C6001016	Epoxiglas® lever lift	2200
75 76	2	M47602	Arbor adapter	2200
76	1	PSC4000075002	Dual auxiliary arm with four M48057 insulators and four C4000268 roller wire holders	NS
77	2	C4000517	Temporary crossarm support	2200
78	2	M48057	Insulators	2200
79	1	T4002272	Corner restraint bracket	2200
80	3	H47144	Roller wire holder	2250
81	2	H47152	Link stick	2250
82	1	C4010410	Distribution strain carrier	2250
83	1	M1942	Steel chain	2250
84	2	M19483	Ratchet wrench	2250
85	1	H18408	Insulator cradle	2250
86	1	C6000000	Static ground	2250
87	3	J1541522	Jumper set 15kV (15 ft.)	NS
88	3	J3511522	Jumper set 35kV (15 ft.)	NS
89	3	PSC6010342	Temporary cutout	2300
90	1	C4021079	Insulated platform 8'	2350
91	1	C4021173	Platform pivot	2350
92 93	1 12	C4020024 C4060181GA	Platform railing for 8'	2350
93	6	C4060181GA C4060182	Conductor cover Insulator cover	2400 2400
95	4	M49371	Pole cover 9" x 1'	2400
96	4	M49372	Pole cover 9" x 2'	2400
97	3	M49376	Pole cover 9" x 6'	2400
98	2	C4060097	Pole top cover	2400
99	3	C4060092	Post insulator cover	2400
100	2	C4060102	Crossarm end cover	2405
101	2	M4933	Crossarm guard	2400
102	12	C4060084GA	Spiral cover	2400
103	3	C4060046	Insulator cover	2400
104	12	C4060305	Flexible line hose	2400
105	4	C4060346	Blanket, solid	2400
106	4	C4060348	Blanket, slotted	2400
107	24	C4060530	Hot stick blanket pin	2400
108	1	H18761	Phasing set	2450
109 110	1 1	H18762 C4033374	Extension resistors Auto-ranging voltage indicator	2450 2450
111	1 12	C4033374 C6001734	Auto-ranging voltage indicator Ground clamp	3000
112	1	T6000641	Ground set	3000
113	1	T6000865	Bag for ground set	3000
	-	. 3	. J - 2 g	2000

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013



Page 2619



69kV, 477kcmil & smaller - No Underbuild, Hot Stick Work only

Recommended Hot Line Tools List Page 1 of 2

Item	Qty.	Catalog No.	Description	Catalog Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	5	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170151	Line hose bag	2500
11	1	C4170144	Tool bucket, large	2500
12	1	C4170146	Tool bucket, small	2500
13	2	PSC3090467	Nylon hoist	1100
14	1	C3081190	Gasoline capstan, 1,000# capacity	1150
15	1	C3080925	Universal bracket	1150
16	2	C4170346	Chain clamp	1150
17	1	C3080856	Rope lock device	1150
18	1200'	C4000799	Composite braid rope	1250
19	1	T4001265	Fid & pusher ½"	NS
20	4	T4001258	Nylon blocks w/150' composite braid rope	1250
21	4	22302	Snatch block, 1,000# capacity	1250
22	2	C4176067	Snatch block, 2,500# capacity	1250
23	4	M1849	Hand line hook	1250
24	2	C4170588	Nylon sling 3' x 1" DT	NS
25	2	C4170589	Nylon sling 5' x 1¾" DT	NS
26	4	C4170139	Nylon sling 3' x 1¾"	1250
27	4	C4170140	Nylon sling 4' x 1¾"	1250
28	4	C4170141	Nylon sling 5' x 1¾"	1250
29	4	C4170142	Nylon sling 6' x 1¾"	1250
30	1	C3050008	Cant hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34	2	T165650H	Wire grip	1250
35	2	C4030293	Grip-all clampstick	2100
36	1	C4033068	Wire holding stick 6'	2100
37	1	C4033069	Wire holding stick 8'	2100
38	1	C4031022EM	Telescoping measuring stick	2100
39	2	H185525	Tie stick	2100
40	1	C4030186	All angle cog wrench	2100
41	1	C4031085	Socket set	2100
42	2	H17604	Universal pole 11/4" x 8'	2100
43	1	H176010	Universal pole 11/4" x 10'	2100
44	2	M1860	Tool hanger	2100
45	1	C4031114	Universal tool kit	2100
46	1	M445519	Cotter key pusher	2100
47	1	M445523	Hack saw	2100
48	6	P4030369P	Hack saw blade	2100

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2620 November 2013



69kV, 477kcmil & smaller - No Underbuild, Hot Stick Work only

Recommended Hot Line Tools List Page 2 of 2

Item	Qty.	Catalog No.	Description	Catalog Section
49	1	C4032213	Pruning saw	2100
50	1	T4031101	Adjustable insulator fork	2100
51	1	M445585	Hammer	2100
52	1	M445587	Ball socket adjuster	2100
53	1	C4030834	Hot Rodder tool	2100
54	1	C4030126P	Ball socket adjuster plastisol coated	NS
55	1	C4030175	Plastic insulator tool	2100
56	1	C4032861	Hydraulic cutters	2100
57	1	H18716	Wire cutters light duty	2100
58	2	H46458	Wire tong 1½" x 8'	2200
59	2	H464510	Wire tong 1½" x 10'	2200
60	4	H464712	Wire tong 2½" x 12'	2200
61	2	H464716	Wire tong 2½" x 16'	2200
62	4	M47403W	Wire tong saddle 1½"	2200
63	4	M47405W	Wire tong saddle 2½"	2200
64	4	C4000073	Saddle extension	2200
65	4	M4743	Wire tong block clamp	2200
66	4	M18474	Extension chain	2200
67	1	M1846W	Rope snubbing bracket	2200
68	6	M4760W	Lever lift	2200
69	2	C4001016	Epoxiglas® Lever lift	2200
70	3	M47602	Arbor adapter	2200
71	1	T4002272	Corner restraint bracket	2200
72	2	H47152	Link stick 11/4" x 4'	2250
73	3	H47144	Roller link stick	2250
74	1	C4010410	Distribution strain carrier	2250
75	2	M19483	Ratchet wrench	2250
76	1	H18408	Insulator cradle	2250
77	2	C6000000	Static ground	2250
78	1	C4033374	Auto-ranging voltage indicator	2450
79	1	C4021079	Insulated platform 8'	2350
80	1	C4020024	Platform railing	2350
81	1	C4021173	Platform pivot	2350
82	2	M49371	Pole cover 9" x 1'	2400
83	2	M49372	Pole cover 9" x 2'	2400
84	2	C4060102	Crossarm end guard	2400
85	2	M4933	Crossarm guard	2400

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2621



69kV, 477kcmil & smaller - with Underbuild, Hot Stick Work only

Recommended Hot Line Tools List Page 1 of 2

<u>ltem</u> .	Qty.	Catalog No.		Catalog Section
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	5	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170151	Line hose bag	2500
11	1	C4170144	Tool bucket, large	2500
12	1	C4170146	Tool bucket, small	2500
13	2	PSC3090467	Nylon hoist	1100
14	1	C3081190	Gasoline capstan, 1,000# capacity	1150
15	1	C3080925	Universal bracket	1150
16	2	C4170346	Chain clamp	1150
17	1	C3080856	Rope lock device	1150
18	1200'	C4000799	Composite braid rope	1250
19	1	T4001265	Fid & pusher	NS
20	4	T4001258	Nylon blocks w/150' composite braid rope	1250
21	4	22302	Snatch block, 1,000# capacity	1250
22	2	C4176067	Snatch block, 2,500# capacity	1250
23	4	M1849	Hand line hook	1250
24	2	C4170588	Nylon sling 3' x 1" DT	NS
25	2	C4170589	Nylon sling 5' x 1 ³ / ₄ " DT	NS
26	4	C4170139	Nylon sling 3' x 1 ³ / ₄ "	1250
27	4	C4170140	Nylon sling 4' x 1 ³ / ₄ "	1250
28	4	C4170141	Nylon sling 5' x 1¾"	1250
29	4	C4170142	Nylon sling 6' x 1¾"	1250
30	1	C3050008	Cant hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34	2	T165650H	Wire grip	1250
35	2	C4030293	Grip-all clampstick	2100
36	1	C4033068	Wire holding stick 6'	2100
37	1	C4033069	Wire holding stick 8'	2100
38	1	C4031022EM	Telescoping measuring stick	2100
39	2	H185525	Tie stick	2100
40	1	C4030186	All angle cog wrench	2100
41	1	C4031085	Socket set	2100
42	2	H17604	Universal pole 1¼" x 8'	2100
43	1	H176010	Universal pole 11/4" x 10'	2100
44	2	M1860	Tool hanger	2100
45	1	C4031114	Universal tool kit	2100
46	1	M445519	Cotter key pusher	2100



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2622 November 2013



69kV, 477kcmil & smaller - with Underbuild, Hot Stick Work only

Recommended Hot Line Tools List Page 2 of 2

Item	Qty.	Catalog No.	Description	Catalog Section
47	1	M445523	Hack saw	2100
48	6	P4030369P	Hack saw blade	2100
49	1	C4032213	Pruning saw	2100
50	1	T4031101	Adjustable insulator fork	2100
51	1	M445585	Hammer	2100
52	1	M445587	Ball socket adjuster	2100
53	1	C4030834	Hot Rodder tool	2100
54	1	C4030126P	Ball socket adjuster plastisol coated	NS
55	1	C4030175	Plastic insulator tool	2100
56	1	C4032861	Hydraulic cutters	2150
57	1	H18716	Wire cutters light duty	2150
58	2	H46458	Wire tong 1½" x 8'	2200
59	2	H464510	Wire tong $1\frac{1}{2}$ " x 10'	2200
60	4	H464712	Wire tong 2½" x 12'	2200
61	2	H464716	Wire tong 2½" x 16'	2200
62	4	M47403W	Wire tong saddle 1½"	2200
63	4	M47405W	Wire tong saddle 2½"	2200
64	4	C4000073	Wire tong saddle extension	2200
65	4	M4743	Wire tong block clamp	2200
66	4	M18474	Extension chain	2200
67	2	M1846W	Rope snubbing bracket	2200
68	3	M4760W	Lever lift	2200
69	1	C4001016	Epoxiglas® Lever lift	2200
70	2	M47602	Arbor adapter	2200
71	1	T4002272	Corner restraint bracket	2200
72	2	H47152	Link stick 1¼" x 4'	2250
73	3	H47144	Roller link stick	2250
74	1	C4010410	Distribution strain carrier	2250
75	2	M19483	Ratchet wrench	2250
76	1	H18408	Insulator cradle	2250
77	2	C6000000	Static ground	2250
78	1	C4033374	Auto-ranging voltage indicator	2450
79	1	C4021079	Insulated platform 8'	2350
80	1	C4020024	Platform railing	2350
81	1	C4021173	Platform pivot	2350
82	2	M49371	Pole cover 9" x 1'	2400
83	2	M49372	Pole cover 9" x 2'	2400
84	2	C4060102	Crossarm end guard	2400
85	2	M4933	Crossarm guard	2400
86	12	C4060181GA	Conductor cover	2400
87	6	C4020182	Insulator cover	2400
88	12	C4060084GA	Conductor cover spiral	2400
89	3	C4060046	Insulator cover	2400
90	2	C4032999	Blanket canister	2500
91	4	C4060346	Blanket	2400
92	4	C4060348	Slotted blanket	2400
93	24	C4060531	Hot stick blanket pin	2400

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2623



69 thru 161kV, 477kcmil & smaller - No Underbuild, Hot Stick Work only

Recon	nmende	d Hot Line Tools Lis	t Page 1 of 2	Catalog
Item	Qty.	Catalog No.	Description	Section
			<u> </u>	
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	5	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170151	Line hose bag	2500
11	1	C4170144	Tool bucket, large	2500
12	1	C4170146	Tool bucket, small	2500
13	2	PSC3090467	Nylon hoist	1100
14	1	C3081190	Gasoline capstan, 1,000# capacity	1150
15	1	C3080925	Universal bracket	1150
16	2	C4170346	Chain clamp	1150
17	1	C3080856	Rope lock device	1150
18	1200'	C4000799	Composite braid rope	1250
19	1	T4001265	Fid & pusher	NS
20	4	T4001258	Nylon blocks w/150' composite braid rope	1250
21	4	22302	Snatch block, 1,000# capacity	1250
22	2	C4176067	Snatch block, 2,500# capacity	1250
23	4	M1849	Hand line hook	1250
24	2	C4170588	Nylon sling 3' x 1" DT	NS
25	2	C4170589	Nylon sling 5' x 1¾" DT	NS
26	4	C4170139	Nylon sling 3' x 1¾"	1250
27	4	C4170140	Nylon sling 4' x 1¾"	1250
28	4	C4170141	Nylon sling 5' x 1¾"	1250
29	4	C4170142	Nylon sling 6' x 1¾"	1250
30	1	C3050008	Cant hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34	2	T165650H	Wire grip	1250
35	2	C4030293	Grip-all clampstick	2100
36	1	C4033068	Wire holding stick 6'	2100
37	1	C4033069	Wire holding stick 8'	2100
38	1	C4031022EM	Telescoping measuring stick	2100
39	2	H185525	Tie stick	2100
40	1	C4030186	All angle cog wrench	2100
41	1	C4031085	Socket set	2100
42	2	H17604	Universal pole 11/4" x 8'	2100
43	1	H176010	Universal pole 11/4" x 10'	2100
44	2	M1860	Tool hanger	2100
45	1	C4031114	Universal tool kit	2100
46	1	M445519	Cotter key pusher	2100

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2624 November 2013



69 thru 161kV, 477kcmil & smaller - No Underbuild, Hot Stick Work only

Recon		Hot Line Tools Li	<u>-</u>	Catalog
Item Qty. Catalog No.			Description	Section
47	1	M445523	Hack saw	2100
48	6	P4030369P	Hack saw blade	2100
49	1	C4032213	Pruning saw	2100
50	1	T4031101	Adjustable insulator fork	2100
51	1	M445585	Hammer	2100
52	1		Ball socket adjuster	2100
53	1	M445587 C4030834	Hot Rodder tool	2100
53 54	1	C4030634 C4030126P		NS
55	1		Ball socket adjuster plastisol coated Plastic insulator tool	2100
	=	C4030175		
56 57	1	C4032861	Hydraulic cutters	2100
57 50	1	H18716	Wire cutters light duty	2100
58	2	H46458	Wire tong 1½" x 8'	2200
59	2	H464510	Wire tong 1½" x 10'	2200
60	4	H464712	Wire tong 2½" x 12'	2200
61	2	H464716	Wire tong 2½" x 16'	2200
62	4	M47403W	Wire tong saddle 1½"	2200
63	4	M47405W	Wire tong saddle 2½"	2200
64	4	C4000073	Wire tong saddle extension	2200
65	4	M4743	Wire tong block clamp	2200
66	4	M18474	Extension chain	2200
67	2	M1846W	Rope snubbing bracket	2200
68	3	M4760W	Lever lift	2200
69	1	C4001016	Epoxiglas® Lever lift	2200
70	2	M47602	Arbor adapter	2200
71	1	T4002272	Corner restraint bracket	2200
72	2	H47152	Link stick 1¼" x 4'	2250
73	3	H47144	Roller link stick	2250
74	1	C4010410	Distribution strain carrier	2250
75	2	M19483	Ratchet wrench	2250
76	1	H18408	Insulator cradle	2250
77	2	C6000000	Static ground	2250
78	1	C4033375	Auto-ranging voltage indicator	2450
79	1	C4021079	Insulated platform 8'	2350
80	1	C4020024	Platform railing	2350
81	1	C4021173	Platform pivot	2350
82	2	M49371	Pole cover 9" x 1'	2400
83	2	M49372	Pole cover 9" x 2'	2400
84	2	C4060102	Crossarm end guard	2400
85	2	M4933	Crossarm guard	2400
86	4	H4718	Link stick 1½" x 4'	2250
87	2	C4012144	Adjustable strain pole	2250
88	1	C4011721	Cold end yoke	2250
89	1	E4012068P	Small extended trunnion	2250
90	3	H45403002	Pole $1\frac{1}{2}$ "-diameter x 10' with butt swivel on end and	NS
			plastisol cap on other	
91	2	M47241	Adjustable hook assembly	2250
92	1	H47232	Fork suspension tool attachment	2250
93	1	H47234	Trolley wheel	2250

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2625



CHANCE® 69 - 161kV, 477kcmil & smaller - with Underbuild, Hot Stick Work only

		d Hot Line Tools Lis	t Page 1 of 2	Catalog
Item	Qty.	Catalog No.	Description	Section
	Qty.			
1	1	PSC4050299XXX	Tool trailer walk in type with side door on curb side. See Cat. Section 2500 for details.	2500
2	1	C4002365	Cleaning kit	2500
3	12	M1904	Wiping cloth	2500
4	1	C4033178	Hot stick tester	2500
5	1	H1917	Bond patching kit	2500
6	2	C4002335	Dry film lubricant	2500
7	5	H17605	Tool hanger	2500
8	2	M4660	Tool rack	2500
9	1	T3060025	Tarp	2500
10	1	C4170151	Line hose bag	2500
11	1	C4170144	Tool bucket, large	2500
12	1	C4170146	Tool bucket, small	2500
13	2	PSC3090467	Nylon hoist	1100
14	1	C3081190	Gasoline capstan, 1,000# capacity	1150
15	1	C3080925	Universal bracket	1150
16	2	C4170346	Chain clamp	1150
17	1	C3080856	Rope lock device	1150
18	1200'	C4000799	Composite braid rope	1250
19	1	T4001265	Fid & pusher	NS
20	4	T4001258	Nylon blocks w/150' composite braid rope	1250
21	4	22302	Snatch block, 1,000# capacity	1250
22	2	C4176067	Snatch block, 2,500# capacity	1250
23	4	M1849	Hand line hook	1250
24	2	C4170588	Nylon sling 3' x 1" DT	NS
25	2	C4170589	Nylon sling 5' x 1 ³ / ₄ " DT	NS
26	4	C4170389 C4170139	Nylon sling 3' x 1 ³ / ₄ "	1250
27	4	C4170133	Nylon sling 4' x 1 ³ / ₄ "	1250
28	4	C4170140	Nylon sling 5' x 1 ³ / ₄ "	1250
29	4	C4170141 C4170142	Nylon sling 6' x 1 ³ / ₄ "	1250
30	1	C3050008	Cant hook	1250
31	2	T161340H	Wire grip	1250
32	2	T16845H	Wire grip	1250
33	2	T165640H	Wire grip	1250
34	2	T165650H	Wire grip	1250
35	2	C4030293	Grip-all clampstick	2100
36	1	C4030255 C4033068	Wire holding stick 6'	2100
37	1	C4033069	Wire holding stick 8'	2100
38	1	C4033005 C4031022EM	Telescoping measuring stick	2100
39	2	H185525	Tie stick	2100
40	1	C4030186	All angle cog wrench	2100
41	1	C4030186 C4031085	Socket set	2100
42	2	H17604	Universal pole 1¼" x 8'	2100
43	1	H176010	Universal pole 11/4" x 10'	2100
44	2	M1860	Tool hanger	2100
45	1	C4031114	Universal tool kit	2100
46	1	M445519	Cotter key pusher	2100
47	1	M445523	Hack saw	2100
48	6	P4030369P	Hack saw blade	2100
49	1	C4032213	Pruning saw	2100
50	1	T4031101	Adjustable insulator fork	2100
50	'	191100	Adjustable libulator fork	2100

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2626 November 2013



69 – 161kV, 477kcmil & smaller - with Underbuild, Hot Stick Work only

			rt Page 2 of 2	Catalon
Recommended Hot Line Tools Lis			5	Catalog
Item	Qty.	Catalog No.	Description	Section
51	1	M445585	Hammer	2100
52	1	M445587	Ball socket adjuster	2100
53	1	C4030834	Hot Rodder tool	2100
54	1	C4030126P	Ball socket adjuster plastisol coated	NS
55	1	C4030175	Plastic insulator tool	2100
56	1	C4032861	Hydraulic cutters	2100
57	1	H18716	Wire cutters light duty	2100
58	2	H46458	Wire tong 1½" x 8'	2200
59	2	H464510	Wire tong 1½" x 10'	2200
60	4	H464712	Wire tong 2½" x 12'	2200
61	2	H464716	Wire tong 2½" x 16'	2200
62	4	M47403W	Wire tong saddle 1½"	2200
63	4	M47405W	Wire tong saddle 2½"	2200
64	4	C4000073	Wire tong saddle extension	2200
65	4	M4743	Wire tong slock clamp	2200
66		M18474	Extension chain	
	4			2200
67	2	M1846W	Rope snubbing bracket	2200
68	3	M4760W	Lever lift	2200
69	1	C4001016	Epoxiglas® Lever lift	2200
70	2	M47602	Arbor adapter	2200
71	1	T4002272	Corner restraint bracket	2200
72	2	H47152	Link stick 1¼" x 4'	2250
73	3	H47144	Roller link stick	2250
74	1	C4010410	Distribution strain carrier	2250
75	2	M19483	Ratchet wrench	2250
76	1	H18408	Insulator cradle	2250
77	2	C6000000	Static ground	2250
78	1	C4033375	Auto-ranging voltage indicator	2450
79	1	C4021079	Insulated platform 8'	2350
80	1	C4020024	Platform railing	2350
81	1	C4021173	Platform pivot	2350
82	2	M49371	Pole cover 9" x 1'	2400
83	2	M49372	Pole cover 9" x 2'	2400
84	2	C4060102	Crossarm end guard	2400
85	2	M4933	Crossarm guard	2400
86	4	H4718	Link stick 1½" x 4'	2250
87	2	C4012144	Adjustable strain pole	2250
88	1	C4011721	Cold end yoke	2250
89	2	E4012068P	Small extended trunnion	2250
90	3	PSH45403002	Blank pole to be $1\frac{1}{2}$ " x 10' with butt swivel on end and	NS
50	,	1 31143403002	plastisol cap on other	145
91	2	M47241	Adjustable hook assembly	2250
92	1	H47232	Fork suspension tool attachment	2250
93	1	H47234	Trolley wheel	2250
94	12	C4060181GA	Conductor cover	2400
95	6	C4060182	Insulator cover	2400
96	12	C4060084GA	Spiral conductor cover	2400
97	3	C4060046	Insulator cover	2400
98	2	C4032999	Blanket canister	2500
99	4	C4060346	Blanket, solid	2400
100	4	C4060348	Blanket, slotted	2400
101	24	C4060530	Hot stick blanket pin	2400

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 2627





Table of Contents

From the name you trust and the brand you depend on: Chance Lineman Grade Gloves and Sleeves

Chance natural rubber insulating gloves and sleeves are available in several ASTM voltage classes and a full range of sizes. Manufactured for your ultimate protection and comfort, Chance Lineman Grade Gloves and Sleeves deliver the innovation and dependability you demand.

TO THOSE WHO CLIMB™

Subject	Page
Responsible Manufacturing and Quality Assurance	2653
Guidelines for Inspection and Care	2654
General Reference: Ratings, Labels, Sizing, Protectors	2656
Rubber Insulating Gloves Low Voltage Class 00 & 0	2657
High Voltage Class 1, 2, 3, 4 Straight Cuff Bell Cuff	2658 2659
High Voltage Class 2, 3, 4 Contour Cuff	2660
Leather Protector Gloves & Cotton Glove Liners	2661
Rubber Insulating Sleeves & Accessories High Voltage Class 2, 3, 4	2662
Storage/Service Bags	2663



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2652 June 2014



Chance® Rubber Insulating Gloves and Sleeves

Green & Made With Environmentally-Responsible Processes

Aqueous Dip Process

- Water-based method avoids Volatile Organic Compounds (VOCs)
- VOCs are flammable and harmful to the environment
- Aqueous Process helps rubber products retain elasticity, flexibility and great insulation inherent to natural rubber

Biomass Boilers

- Steam for Chance® rubber glove production is generated by Biomass boilers
- No oil or natural gas is burned in the process
- Process burns environmentally friendly byproducts from palm oil industry
- This bio-fuel makes the boiler emissions effectively carbon neutral

Waste Water High-Tech Treatment

- State-of-the-art water treatment system
- Makes all waste water used in glove-making process safe for reuse or discharge

ISO 14001 Certified For Environmental Management

- Designed for high achievement and low impact on environment
- Manufacturing plant in Malaysia that produces Chance rubber gloves has earned ISO 14001 certification
- Plant also won environmental-responsibility award from Malaysian government



Superior Quality Assurance

Critical Measures Taken To Ensure Worker Safety

Top-Quality Assurance

- Chance rubber gloves are manufactured in an ISO 9001-certified facility
- Industry-leading technological innovations
- Promotes product safety
- Reduces environmental impact

100% Visually & Electrically Tested

- · Every pair of gloves is visually inspected inside and outside
- Electrically proof tested for 3 minutes per ASTM D120

Full Product Traceability

- Every glove is marked with electrical-testing/born-on date
- Includes lot code on outside of glove
- Safety stamp on inside of glove
- These three markings indicate manufacturing location and process

Certified Chemical & Physical Laboratory

- Rubber compounds and finished gloves are closely analyzed and inspected
- This is completed using the ISO 17025 certified laboratory in the factory

Quality Assurance Inspections

- QA visual and electrical checks are performed on all gloves
- Every glove shipment is inspected at our distribution center in Centralia, Missouri





HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

June 2014



Rubber Glove Inspection Tips

- Follow company work procedures and safety rules
- Inspect gloves and sleeves daily for damage
- Wear proper leather protectors over rubber gloves
- Wash gloves or sleeves with mild soap and rinse thoroughly with water
- Let gloves or sleeves air dry at room temperature or less than 120° F (49° C)
- Store gloves and sleeves in a protective bag

- Don't!
 Wear jewelry or sharp objects when using rubber gloves or sleeves
- Wear damaged gloves or sleeves
- Store gloves or sleeves inside out, folded, or ways causing stretching or compression
- Store gloves or sleeves near sources of UV, Ozone or
- Allow gloves or sleeves to contact petroleum-based products (oil, gas, solvent, hand creams)

Checking or cracks due to UV or ozone





Grooves worn due to rope burns or heat exposure



Reduce Hand Fatigue with Chance® Rubber Gloves

Straight fingers relative to palm help prevent fatigue of tendons in back of hands

Oval-shaped fingers help provide "No-Dead-Spots" feel & better dexterity



Straight wrist in natural rest position helps avoid fatiguing forearms & hands

Wide cuff for improved comfort & air-flow

ASTM label assures every glove has been made & tested to **ASTM D120**

Weak creases resulting from being left too long inside out or folded



Electrical puncture



• "Blooms" or "swells" from chemicals, oils





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2654 June 2014

CHANCE®



Perform daily and periodic tests

ASTM F 1236 maximum inflation limits:

Outside

Type I

Manual Inflation: per ASTM F 1236

1 Grasp glove

See industry reference: ASTM F1236 **Standard Guide for Visual Inspection** of Electrical Protective Rubber Products

Mechanical Inflators

2 times normal size

Test gloves both

and

Inside Out

11/4 times normal size



2 Stretch to seal closed



3 Press and roll tightly



June 2014

4 Twirl glove, rotating on rolled ends



7 Turn glove inside out and repeat process

6 Hold close to ear, squeeze to add pressure, listen and feel for pinhole leaks







5 Entrap air by holding in one hand



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE®

LINEMAN GRADE GLOVES

General Reference

From the name you trust and the brand you depend on: Chance Lineman Grade Gloves

- Insulating gloves should be used by properly trained personnel
- Comply with ASTM D120 standards for rubber insulating gloves for each voltage rating
- Table below summarizes rubber insulating gloves ratings and labels per ASTM

Selecting the right size for you • Selecting the right size ensures a comfortable wear without sacrificing dexterity • Allow approximately an additional 0.5" if liners will be used

We're taking responsibility...

- Gloves are manufactured using environmentally conscious processes
- Processes make the most efficient use of raw materials and natural resources
- When workers wear our gloves they are also helping limit VOC and CO2 emissions

Class	Max. Use Voltage AC / DC	Proof Test Voltage AC / DC	Label Color
00* *Gloves	500 / 750	2,500 / 10,000	10 CHANCE* ASTM D120 EN 60803 CLASS 00 TYPE I MAX USE VOLT 500V AC
only 0	1,000 / 1,500	5,000 / 20,000	Beige CHANCE ASTM D120 EN 60903 CLASS 0 TYPE I MAX USE VOLT 1000V AC
1	7,500 / 11,250	10,000 / 40,000	Red CHANCE* ASTM D120 EN 60903 CLASS 1 TYPE 1 MAX USE VOLT 7500V AG
2	17,000 / 25,500	20,000 / 50,000	White CHANCE ASTMD120 EN 60903 CLASS TYPE I MAX USE VOLT 17000V AC
3	26,500 / 39,750	30,000 / 60,000	Yellow CHANCE* ASTM D120 EN 60903 CLASS 3 TYPE I MAX USE VOLT 26500V AC
4	36,000 / 54,000	40,000 / 70,000	Green CHANCE ASTM D120 EN 60903 TYPE I MAX USE VOLT 36000V AC Orange

Leather Protector Considerations

- Must meet ASTM specification F696
- Should always be worn over rubber insulating gloves
- This prevents mechanical damage to the rubber gloves, except for those conditions detailed in ASTM F496
- Protector must be properly sized and shaped to avoid deformation or damage
- Minimum distances between gauntlet and cuff are listed in the table shown

For more details on leather protectors or rubber gloves, please refer to ASTM D120, F496 and F696.



CLEARANCE TABLE FOR LEATHER PROTECTORS PER ASTM F496

Glove Class	Minimum Distance Between Protectors and Rubber Glove				
	in.	mm			
00, 0	1/2	13			
1	1	25			
2	2	51			
3	3	76			
4	4	102			



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2656 June 2014



LINEMAN GRADE GLO

Straight Cuff - ASTM Class 00, 0

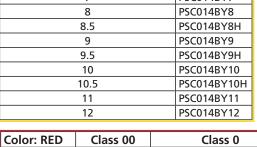
Features & Applications

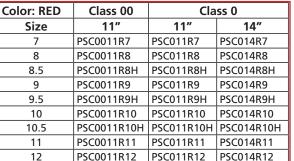
- The ultimate source of protection expected from the Chance name
- Offers a new level of comfort and flexibility
- · Constructed for high dielectric and physical strength
- Exceed ASTM D120
- Available in straight cuff lengths of 11" and 14"
- Type I Chance Gloves come in red, yellow, black or black-yellow

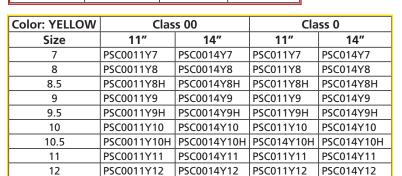
Ergonomic innovation. Superior products. Timely solutions.

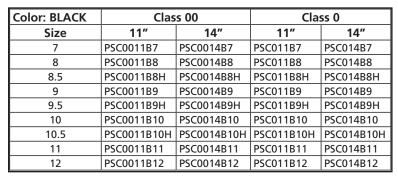
Just a few of the reasons the industry turns to Hubbell Power Systems and the Chance brand.

Color: BLACK UNDER YELLOW	Class 0
Size	14"
7	PSC014BY7
8	PSC014BY8
8.5	PSC014BY8H
9	PSC014BY9
9.5	PSC014BY9H
10	PSC014BY10
10.5	PSC014BY10H
11	PSC014BY11
12	PSC014BY12



















Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

June 2014 Page 2657



LINEMAN GRADE GLOVES"

Straight Cuff - ASTM Class 1, 2, 3, 4

From the name you trust and the brand you depend on: Chance Lineman Grade Gloves

Features & Applications

- The ultimate source of protection expected from the Chance name
- Offers a new level of comfort and flexibility
- Constructed for high dielectric and physical strength
- Exceed ASTM D120
- Available in straight cuff lengths of 14", 16" and 18"
- Type I Chance Gloves come in black or two contrasting colors



Ergonomic innovation. Superior products. Timely solutions.

Just a few of the reasons the industry turns to Hubbell Power Systems and the Chance brand.

Color Black										
	Class 1		Class 2			-		-		
Size	14"	16"	14"	16"						
8	PSC114B8	PSC116B8	PSC214B8	PSC216B8	-	-	-	-	-	
8.5	PSC114B8H	PSC116B8H	PSC214B8H	PSC216B8H	-	-	-	-	-	
9	PSC114B9	PSC116B9	PSC214B9	PSC216B9	-	-	-	-	-	
9.5	PSC114B9H	PSC116B9H	PSC214B9H	PSC216B9H	-	-	-	-	-	
10	PSC114B10	PSC116B10	PSC214B10	PSC216B10	-	-	-	-	-	
10.5	PSC114B10F	IPSC116B10H	PSC214B10H	PSC216B10H		-	-	-	-	
11	PSC114B11	PSC116B11	PSC214B11	PSC216B11	-	-	-	-	-	
12	PSC114B12	PSC116B12	PSC214B12	PSC216B12	-	-	-	-	-	
Color Red under Black										

COI	oi itea ailaei	Diack							
	CLASS 1		CLASS 2			CLASS 3		CLASS 4	
Size	14"	16"	14"	16"	18"	16	18"	16"	18"
8	PSC114RB8	PSC116RB8	PSC214RB8	PSC216RB8	PSC218RB8	PSC316RB8	PSC318RB8	-	-
8.5	PSC114RB8H	PSC116RB8H	PSC214RB8H	PSC216RB8H	PSC218RB8H	PSC316RB8H	PSC318RB8H	-	-
9	PSC114RB9	PSC116RB9	PSC214RB9	PSC216RB9	PSC218RB9	PSC316RB9	PSC318RB9	PSC416RB9	PSC418RB9
9.5	PSC114RB9H	PSC116RB9H	PSC214RB9H	PSC216RB9H	PSC218RB9H	PSC316RB9H	PSC318RB9H	PSC416RB9H	PSC418RB9H
10	PSC114RB10	PSC116RB10	PSC214RB10	PSC216RB10	PSC218RB10	PSC316RB10	PSC318RB10	PSC416RB10	PSC418RB10
10.5	PSC114RB10H	PSC116RB10H	PSC214RB10H	PSC216RB10H	PSC218RB10H	PSC316RB10H	PSC318RB10H	PSC416RB10H	PSC418RB10H
11	PSC114RB11	PSC116RB11	PSC214RB11	PSC216RB11	PSC218RB11	PSC316RB11	PSC318RB11	PSC416RB11	PSC418RB11
12	PSC114RB12	PSC116RB12	PSC214RB12	PSC216RB12	PSC218RB12	PSC316RB12	PSC318RB12	PSC416RB12	PSC418RB12

Color	Vall	014/ I	ındar	Plack
COIOI	rem	JVV L	muer	DIALK

COIG	or reliow un	der black							
	Class 1		Class 2			Class 3		Class 4	
Size	14"	16"	14"	16"	18"	16"	18"	16"	18"
8	PSC114YB8	PSC116YB8	PSC214YB8	PSC216YB8	PSC218YB8	PSC316YB8	PSC318YB8	-	-
8.5	PSC114YB8H	PSC116YB8H	PSC214YB8H	PSC216YB8H	PSC218YB8H	PSC316YB8H	PSC318YB8H	-	-
9	PSC114YB9	PSC116YB9	PSC214YB9	PSC216YB9	PSC218YB9	PSC316YB9	PSC318YB9	PSC416YB9	PSC418YB9
9.5	PSC114YB9H	PSC116YB9H	PSC214YB9H	PSC216YB9H	PSC218YB9H	PSC316YB9H	PSC318YB9H	PSC416YB9H	PSC418YB9H
10	PSC114YB10	PSC116YB10	PSC214YB10	PSC216YB10	PSC218YB10	PSC316YB10	PSC318YB10	PSC416YB10	PSC418YB10
10.5	PSC114YB10H	I PSC116YB10F	PSC214YB10F	I PSC216YB10F	I PSC218YB10H	PSC316YB10H	I PSC318YB10H	PSC416YB10H	I PSC418YB10H
11	PSC114YB11	PSC116YB11	PSC214YB11	PSC216YB11	PSC218YB11	PSC316YB11	PSC318YB11	PSC416YB11	PSC418YB11
12	PSC114YB12	PSC116YB12	PSC214YB12	PSC216YB12	PSC218YB12	PSC316YB12	PSC318YB12	PSC416YB12	PSC418YB12

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2658 June 2014



LINEMAN GRADE GLOVES[™]

Bell Cuff - ASTM Class 1, 2, 3, 4

From the name you trust and the brand you depend on: Chance Lineman Grade Gloves

Features & Applications

- The ultimate source of protection expected from the Chance name
- Offers a new level of comfort and flexibility
- Constructed for high dielectric and physical strength
- Exceed ASTM D120
- Available in bell cuff lengths of 14", 16" and 18"
- Type I Chance Gloves come in two contrasting colors



Ergonomic innovation. Superior products. Timely solutions.

Just a few of the reasons the industry turns to Hubbell Power Systems and the Chance brand.

Color Red under Black

		Class 1		Class 2			Class 3		Class 4	
:	Size	14"	16"	14"	16"	18"	16"	18"	16"	18"
	9	PSC114BCRB9	PSC116BCRB9	PSC214BCRB9	PSC216BCRB9	PSC218BCRB9	PSC316BCRB9	PSC318BCRB9	PSC416BCRB9	PSC418BCRB9
9	9.5	PSC114BCRB9H	PSC116BCRB9H	PSC214BCRB9H	PSC216BCRB9H	PSC218BCRB9H	PSC316BCRB9H	PSC318BCRB9H	PSC416BCRB9H	PSC418BCRB9H
	10	PSC114BCRB10	PSC116BCRB10	PSC214BCRB10	PSC216BCRB10	PSC218BCRB10	PSC316BCRB10	PSC318BCRB10	PSC416BCRB10	PSC418BCRB10
•	10.5	PSC114BCRB10H	PSC116BCRB10H	PSC214BCRB10H	PSC216BCRB10H	PSC218BCRB10H	PSC316BCRB10H	PSC318BCRB10H	PSC416BCRB10H	PSC418BCRB10H
	11	PSC114BCRB11	PSC116BCRB11	PSC214BCRB11	PSC216BCRB11	PSC218BCRB11	PSC316BCRB11	PSC318BCRB11	PSC416BCRB11	PSC418BCRB11
	12	PSC114BCRB12	PSC116BCRB12	PSC214BCRB12	PSC216BCRB12	PSC218BCRB12	PSC316BCRB12	PSC318BCRB12	PSC416BCRB12	PSC418BCRB12

Color Yellow under Black

June 2014

	Class 1		Class 2			Class 3		Class 4	
Size	14"	16"	14"	16"	18"	16"	18"	16"	18"
9	PSC114BCYB9	PSC116BCYB9	PSC214BCYB9	PSC216BCYB9	PSC218BCYB9	PSC316BCYB9	PSC318BCYB9	PSC416BCYB9	PSC418BCYB9
9.5	PSC114BCYB9H	PSC116BCYB9H	PSC214BCYB9H	PSC216BCYB9H	PSC218BCYB9H	PSC316BCYB9H	PSC318BCYB9H	PSC416BCYB9H	PSC418BCYB9H
10	PSC114BCYB10	PSC116BCYB10	PSC214BCYB10	PSC216BCYB10	PSC218BCYB10	PSC316BCYB10	PSC318BCYB10	PSC416BCYB10	PSC418BCYB10
10.5	PSC114BCYB10H	I PSC116BCYB10F	PSC214BCYB10H	PSC216BCYB10F	I PSC218BCYB10H	PSC316BCYB10H	PSC318BCYB10H	PSC416BCYB10H	PSC418BCYB10H
11	PSC114BCYB11	PSC116BCYB11	PSC214BCYB11	PSC216BCYB11	PSC218BCYB11	PSC316BCYB11	PSC318BCYB11	PSC416BCYB11	PSC418BCYB11
12	PSC114BCYB12	PSC116BCYB12	PSC214BCYB12	PSC216BCYB12	PSC218BCYB12	PSC316BCYB12	PSC318BCYB12	PSC416BCYB12	PSC418BCYB12

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 2659



LINEMAN GRADE GLOVES™

Contour Cuff - ASTM Class 2, 3, 4

From the name you trust and the brand you depend on: Chance Lineman Grade Gloves

Features & Applications

- The ultimate source of protection expected from the Chance name
- · Offers a new level of comfort and flexibility
- Constructed for high dielectric and physical strength
- Exceed ASTM D120
- Available in contour cuff length of 18"
- Type I Chance Gloves come in two contrasting colors



Ergonomic innovation. Superior products. Timely solutions.

Just a few of the reasons the industry turns to Hubbell Power Systems and the Chance brand.

Co	lor	Red	und	er B	lack

	Class 2	Class 3	Class 4
Size	18"	18"	18"
8	PSC218CRB8		
8.5	PSC218CRB8H		
9	PSC218CRB9	PSC318CRB9	PSC418CRB9
9.5	PSC218CRB9H	PSC318CRB9H	PSC418CRB9H
10	PSC218CRB10	PSC318CRB10	PSC418CRB10
10.5	PSC218CRB10H	PSC318CRB10H	PSC418CRB10H
11	PSC218CRB11	PSC318CRB11	PSC418CRB11
12	PSC218CRB12	PSC318CRB12	PSC418CRB12

Color Yellow under Black

	Class 2	Class 3	Class 4
Size	18"	18"	18"
8 8.5 9	PSC218CYB8 PSC218CYB8H PSC218CYB9	PSC318CYB9	PSC418CYB9
9.5 10 10.5	PSC218CYB9H PSC218CYB10 PSC218CYB10H	PSC318CYB9H PSC318CYB10 PSC318CYB10H	PSC418CYB9H PSC418CYB10 PSC418CYB10H
11 12	PSC218CYB11 PSC218CYB11 PSC218CYB12	PSC318CYB11 PSC318CYB12	PSC418CYB11 PSC418CYB12

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2660 June 2014

Leather Protector Gloves



- Crafted to fit properly over all industry-standard rubber insulating gloves
- Full compliance with ASTM F696 Standard Specification for Leather Protectors for Rubber Insulating Gloves and Mittens

Low-Voltage Leather Protectors

- Goatskin soft, flexible, strong
- Nylon strap with non-metallic buckle

Catalog No.

	10-inch Length	*13-inch Lengt
7	PSCGLP10GN7	PSCGLP13GN7
8 - 81/2	PSCGLP10GN8	PSCGLP13GN8
9 - 91/2	PSCGLP10GN9	PSCGLP13GN9
10 - 101/2	PSCGLP10GN10	PSCGLP13GN10

8 - 81/2	PSCGLP10GN8	PSCGLP13GN8
9 - 91/2	PSCGLP10GN9	PSCGLP13GNS
10 - 10½	PSCGLP10GN10	PSCGLP13GN
11	PSCGLP10GN11	PSCGLP13GN
12	PSCGLP10GN12	PSCGLP13GN

*13" have high-visibility polymeric/leather cuff

High-Voltage Leather Protectors

- Cowhide durable and flexible
- Hi-visibility polymeric/leather cuff
- Nylon strap with non-metallic buckle

Size	Catalog No.				
	12-inch Length	14-inch Length			
8 - 81/2	PSCGLP12CN8	PSCGLP14CN8			
9 - 91/2	PSCGLP12CN9	PSCGLP14CN9			
10 - 10½	PSCGLP12CN10	PSCGLP14CN10			
11	PSCGLP12CN11	PSCGLP14CN11			
12	PSCGLP12CN12	PSCGLP14CN12			
	15-inch Length	*16-inch Length			

8 - 81/2	PSCGLP15CN8	PSCGLP16CN8
9 - 91/2	PSCGLP15CN9	PSCGLP16CN9
10 - 10½	PSCGLP15CN10	PSCGLP16CN10
11	PSCGLP15CN11	PSCGLP16CN11
12	PSCGLP15CN12	PSCGLP16CN12

*16" fit straight and contour-cuff rubber gloves

16CN11 16CN12

PSCGLP10GN9



PSCGLP13GN10

CLEARANCE TABLE FOR LEATHER PROTECTORS PER ASTM F496

Glove	Minimum Distance Between
Class	Protectors and Rubber Gloves

	in.	mm
00, 0	1/2	13
1	1	25
2	2	51
3	3	76
4	4	102



PSCGLP15CN9



PSCGLP16CN9

Glove Liners

- 100% cotton for warmth and comfort under rubber insulating gloves
- One size to fit most
- Two weight/length choices
- Reversible to fit either hand

PSCGLLWCLU Lightweight Wrist length 10" Length



PSCGLLECMU Medium Duty Extended cuff 12" Length

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



June 2014 Page 2661



LINEMAN GRADE SLEEVES

Rubber Insulating Sleeves - ASTM Class 2, 3, 4

From the name you trust and the brand you depend on: **Chance Insulating Sleeves**

Features & Applications

- The ultimate source of protection expected from the Chance name
- Offers a new level of comfort and flexibility
- Constructed for high dielectric and physical strength
- Exceed ASTM D1051
- Available in sizes Regular, Large and Extra Large
- Extra-Curved Sleeves are dipped
- · Come in yellow or two contrasting colors





Ergonomic innovation. Superior products. Timely solutions.

Just a few of the reasons the industry turns to Hubbell Power Systems and the Chance brand.

	Class 2			Class 3			Class 4		
Size	Yellow	Red under Yellow	Yellow under Black	Yellow	Red under Yellow	Yellow under Black	Yellow	Red under Yellow	Yellow under Black
R	PSC2RYEC	PSC2RRYEC	PSC2RYBEC	PSC3RYEC	PSC3RRYEC	PSC3RYBEC	PSC4RYEC	PSC4RRYEC	PSC4RYBEC
L	PSC2LYEC	PSC2LRYEC	PSC2LYBEC	PSC3LYEC	PSC3LRYEC	PSC3LYBEC	PSC4LYEC	PSC4LRYEC	PSC4LYBEC
XL	PSC2XLYEC	PSC2XLRYEC	PSC2XLYBEC	PSC3XLYEC	PSC3XLRYEC	PSC3XLYBEC	PSC4XLYEC	PSC4XLRYEC	PSC4XLYBEC

Join us in taking responsibility Chance Lineman Grade Sleeves are manufactured using environmentally conscious processes that make the most efficient use of raw materials and natural resources. When you wear our sleeves you are also helping limit VOC and CO₂ emissions.

SLEEVE STRAPS and BUTTONS

Features & Applications

- Two straps and four buttons required to properly wear each pair of sleeves
- Straps are 15 in. (381 mm) in length
- Buttons are two-piece, screw-type





Cat. No. PSCS1



Straps ONLY (2 pieces) Cat. No. PSC4060610



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2662 June 2014



Canvas Storage Bags

- Durable cotton canvas with self-hemmed seams
- Snap-button closures
- Brass grommet drain holes on the bottom to aid ventilation and drying

Canvas SLEEVE BAG

- 30" L x 13" Top
- For flat storage of rubber sleeves
- Specially designed for extra-curved sleeves
- Velcro® strap inside at top to hang sleeves in place



PSCGLB30CCS

Snaphook on each bag

- For suspending from belt or in storage
- Leather reinforced tab is stitched to the back of each bag

Canvas GLOVE BAG

- 18" L x 8" Top
- For flat storage of rubber gloves



PSCGLB18CCG



CHANCE®

GLOVE BAG

Features & Applications

- 18" L x 8" Top
- One-piece front and back, bar-tacked at all corners
- Double-nylon stitching, Velcro flap fasteners
- Gusset has 4-inch top tapering to 2-inch bottom
- Gloves not included





C4170148

Snaphook on each bag

- For suspending from belt or in storage
- Leather reinforced tab is stitched to the back of each bag



SLEEVE BAG Features & Applications

- 27" L x 12" Top 7" Bottom
- For flat storage of rubber sleeves
- Bar-tacked corners
- Velcro flap fasteners
- Double-nylon stitching
- Sleeves not included



COMBINATION GLOVE and SLEEVE BAG Features & Applications

- 18" L x 8" Top
- Separate storage for rubber gloves and sleeves
- Single flap, double nylon stitching, Velcro fasteners
- · Gloves and Sleeves not included





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 2664 June 2014



Temporary Grounding Equipment

Safe Working Practices

There are many reasons for temporary grounding to protect personnel working on de-energized circuits, including:

- 1. Induced voltage from adjacent energized lines
- 2. Fault-current feedover from adjacent lines
- 3. Lightning strikes anywhere on the circuit
- 4. Switching-equipment malfunction or human error
- 5. Accident-initiated contact with adjacent lines

Since any one of the above could result in re-energizing the circuit, most utilities treat these potential dangers as ever-present and impose strict temporary-grounding work rules. Their crews' experience often voices these watchwords for the wise to heed:

"If you can't see both ends, it's hot" and "If it isn't grounded, it isn't dead."

Step One: TestingWith a test instrument, confirm the circuit to be worked

 With a test instrument, confirm the circuit to be worked has been de-energized intentionally before ground sets are applied

Vital Procedure Recommendations

Step Two: Cleaning

- For a good connection, scrub oxides and contaminants from conductor, buswork or lattice contact points
- Chance universal wire brushes make this easy
- Serrated-jaw clamps also aid by penetrating surface contaminants

Step Three: Connecting

- Chance insulated Grip-All clampsticks are the proper tools to apply grounding clamps
- Various clampstick lengths and styles are available in Catalog Section 2100, "Insulated Hand Tools"







To indicate energized conditions on overhead lines, (from left) Chance Auto Ranging Voltage Indicator, Digital Voltage Detector and Multi-Range Voltage Detector. At far right, Energized Cable Sensor performs the same function on URD cable with an exposed concentric neutral and elbows without test points.

See Catalog Section 2450, "Instruments and Meters," for details and ordering information.

General Practices

- On de-energized distribution lines, Chance recommends Double-Point grounding
- This grounding is at both structures adjacent to worksite: Connect all three phases via ground set, then connect to ground rod.
- Plus a personal ground at the worksite, from any one phase to a cluster bar well below the worker's feet
- On a system without a neutral, Chance recommends connecting down leads to screw ground rods installed at least 20 feet from all structures and barricaded
- Only for maintenance tasks during which grounds need not be replaced does Chance find acceptable the Single-Point grounding method (at only the worksite: Connect all phases together and grounding plus personal ground, as above)
- Where adequate phase-to-phase clearances permit, Chance accepts the practice of grounding only the phase being worked (in the same manner as personal ground, above)

Reference:

Derived from ASTM F 855, Standard Specifications for Temporary Protective Grounds to be Used on Deenergized Electric Power Lines and Equipment

Copyright ASTM Reprinted with permission.

			Gro	ounding	Set Ratin	gs			
			Short Circu	iit Properti	es ^A				
		Withstand	Rating,	U	timate Rat	ing/Capacit	y, ^B]	
	Sym	metrical k	RMS, 60 Hz	Sy	mmetrical k	A RMS, 60	Hz		Minimum
						30		Continuous	Cable Size
	15	30		6	15	cycles		Current	with Ferrule
	cycles	cycles		cycles	cycles	(500	60	Rating, A	Installed
	(250	(500	Copper Cable	(100	(250	MS)	cycles	RMS,	Equal or
Grade	MS)	MS)	Size	MS)	MS)		(1 S)	60 Hz	Larger Than
1	14	10	#2	29	18	13	9	200	#2
2	21	15	1/0	48	30	21	15	250	1/0
3	27	20	2/0	61	38	27	19	300	2/0
4	34	25	3/0	76	48	34	24	350	3/0
5	43	30	4/0	96	60	43	30	400	4/0
			250 kcmil or						250 kcmil
6	54	39	two 2/0	114	72	51	36	450	or two 2/0
			350 kcmil or						350 kcmil
7	74	54	two 4/0	159	101	71	50	550	or two 4/0
A									

A Withstand and ultimate short circuit properties are based on performance with surges not exceeding 20% asymmetry factor (see Appendices X3 and X4, ASTM F 855).

^B Ultimate rating represents a symmetrical current which the clamp shall carry for the specified time.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3002 March 2013

Safety Reviews

- Temporary grounding practices should be reviewed on a regular basis
- As part of a total maintenance program, routine reviews should be scheduled apart from sessions to set new practices for system upgrades and additions
- These basics should be included on a review checklist:
- 1. Clamp designs specific to each application,
- 2. Cable sized for fault-current potential (see table on page 3002) and minimum-slack lengths
- 3. How construction affects placement of grounds
- 4. Work procedures outlined above
- 5. Inspect and test each grounding set

Chance Grounding-Set Tester

- Ideal for performing function #5 above
- Checks the resistance in a protective ground set
- Can help locate problems often remedied by simple repairs
- · How-to video is included with the tester
- See Catalog Section 2450, "Instruments and Meters," for details and ordering information







Selecting grounding clamps and cable

The Chance grounding line comprises both ready-made sets and separate components for your specific needs. Among the options and criteria to consider:

- Functional fit—Sizes of the clamp types in this section appear in ascending order of maximum-main-line size. By design, many clamps serve a wide size range for their conductor type (cable, bus or tower)
- Adequate capacity—Published ratings for both clamps and cable must withstand maximum-potential system
- fault-current magnitude and full-time duration. Certified test reports are available on request
- Coordinated connectors—Terminal (either pressuretype or threaded-type) selected for clamps dictates the cable ferrule type (either plain or threaded) to match
- On-site handling—Application clearances and fit (for overhead conductors and ground wires, transmission tower shapes, URD apparatus or substation buswork) affect clamp and cable dimensions

How to order a Grounding Set

In addition to the specifying criteria above, each part of a grounding set requires certain choices:

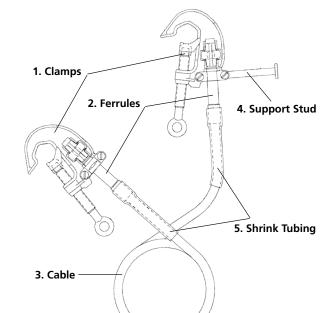
- 1. Clamps
 - ASTM designations for Type, Class and Grade given for clamps shown in this section
- 2. Ferrules
 - Copper or aluminum
 - Plain or threaded
- 3. Cable
 - Length required to reach application distances
 - ASTM Type I with black or yellow elastomer jackets for temperatures from -40°F (-40°C) through +194°F (+90°C)
 - ASTM Type III with clear thermoplastic jacket for temperatures from +14°F (-10°C) through +140°F (+60°) should be used only in well-ventilated areas
- 4. Support Stud
 - This option recommended on only one clamp to help control lifting the set to the first clamp attachment point
- 5. Shrink Tubing

March 2013

 This translucent option recommended for stress relief and inspection of cable strands between ferrule and jacket.

Installation information

- Several training aids available on request
- Chance videos and technical manuals provide details on proper installation
- Consult your Chance representative for any additional assistance





Page 3003

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



C-Type Grounding Clamps



Bronze body,
Smooth jaws,
Bronze eyescrew
with fine threads,
Tapped for 5%-11 UNC threaded ferrule
or T6000466,
Drilled for 5%-11 UNC threaded ferrule



T6000790
Bronze body,
Smooth jaws,
Bronze T-handle/eyescrew
with fine threads,
Tapped for 5/8-11 UNC
threaded ferrule



C6002271
Bronze body,
Smooth jaws,
Bronze eyescrew
with fine threads,
Tapped for 5%-11 UNC
threaded ferrule



C6001959
Bronze body,
Smooth jaws,
Bronze T-handle/eyescrew
with fine threads,
Tapped for 5/8-11 UNC
threaded ferrule



C6001754
Aluminum body,
Smooth jaws,
Bronze eyescrew
with Acme threads,
Tapped for 5%-11 UNC
threaded ferrule



C6002275
Aluminum body,
Smooth jaws,
Bronze eyescrew
with Acme threads,
Bronze pressure-type
terminals



C6002276
Aluminum body,
Serrated jaws,
Bronze eyescrew
with Acme threads,
Bronze pressure-type
terminals



T6002708
Aluminum body,
Serrated jaws,
Bronze eyescrew
with Acme threads,
Tapped for 5%-11 UNC
threaded ferrule



C6001743
Aluminum body,
Smooth jaws,
Bronze eyescrew
with fine threads,
Tapped for 5%-11 UNC

threaded ferrule	terminals		terminals	threaded ferrule		threaded ferrule	
Catalog Number	C6001959 T6000465 T6000466 T6000790	C6002271	C6001754	C6002275	C6002276	T6002708	C6001743
ELECTRICAL RATINGS	10000750	COULLY	20001731	C0002273	C0002270	10002700	20001713
Continuous Current (AMPS)	250	400	350	400	400	400	400
Fault Current - 15 Cycles (AMPS)	21,000	43,000	27,000	43,000	43,000	43,000	43,000
Fault Current - 30 Cycles (AMPS)	15,000	30,000	20,000	30,000	30,000	30,000	30,000
MECHANICAL RATINGS							
Recommended Torque (inlb.)	200	250	250	250	250	250	250
Main Line Range - Max.	477 kcmil ACSR (0.814")	1033 kcmil ACSR (1.25")	750 kcmil Str. Cu. 636 kcmil ACSR (0.998")	1033 kcmil ACSR (1.25")	1033 kcmil ACSR (1.25")	1033 kcmil ACSR (1.25")	1000 kcmil Cu. 1590 kcmil ACSR (1.50")
Main Line Range - Min.	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#8 Sol. Cu. (0.128")	#8 Sol. Cu. (0.128")	#8 Sol. Cu. (0.128")	#8 Sol. Cu. (0.128")	#6 Sol. Cu. (0.162")
Jumper Range - Max.	1/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud	2/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min.	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud
Weight Each	1 ¹ / ₂ lb./0.7kg.	2 lb./0.9kg.	1 lb./0.5kg.	1 ¹ / ₄ lb./0.6 kg.	1 ¹ / ₄ lb./0.6kg.	1 ¹ / ₄ lb./0.6kg.	1 ¹ / ₂ lb./0.7kg.
ASTM Designation	Type I Class A Grade 2	Type I Class A Grade 5	Type I Class A Grade 3	Type I Class A Grade 5	Type I Class B Grade 5	Type I Class B Grade 5	Type I Class A Grade 5



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3004 March 2013

C-Type Grounding Clamps





C6002281 Aluminum body, Smooth jaws, Bronze eyescrew with Acme threads Bronze pressure-type terminal



C6002255 Aluminum body, Smooth jaws, Bronze eyescrew with Acme threads, Tapped for %-11 UNC threaded



Aluminum body, Serrated jaws, Bronze eyescrew with Acme threads



C6002256 Aluminum body, Serrated jaws, Bronze eyescrew with Acme threads, Bronze pressure-type terminal Tapped for 5/8-11 UNC threaded



C6000386 *Mounted Clamp Aluminum body, Serrated jaws, Bronze eyescrew with Acme threads,



Aluminum body, Smooth jaws, **Bronze eyescrew** with Acme threads, Bronze pressure-type terminal



T6003203 Aluminum body, Smooth jaws, **Bronze eyescrew** with Acme threads, Tapped for 5/8-11 UNC threaded ferrule



T6000658 Aluminum body, Smooth jaws, **Bronze eyescrew** with Acme threads, Drilled for 5/8-11 UNC threaded ferrule

Bronze pressur	Bronze pressure-type terminal						thread	ea terruie
Catalog Number	C6002281	C6002255	C6002282	C6002256	*C6000386	G36051	T6003203	T6000658
ELECTRICAL RATINGS	ELECTRICAL RATINGS							
Continuous Current (amps)	400	400	400	400	400	400	400	400
Fault Current - 15 Cycles (amps)	43,000	43,000	43,000	43,000	43,000	43,000	43,000	43,000
Fault Current - 30 Cycles (amps)	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
MECHANICAL RATINGS	•					•		
Recommended Torque (inlb.)	250	250	250	250	250	250	250	250
Main Line Range - Max.	2" O.D. Bus	2" O.D. Bus	2" O.D. Bus	2" O.D. Bus	2" O.D. Bus	2" O.D. Bus	2" O.D. Bus	2" O.D. Bus
Main Line Range - Min.	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")
Jumper Range - Max.	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud
Weight Each	2 lb./0.9kg.	1¾ lb./0.8kg.	2 lb./0.9kg.	1¾ lb./0.8kg.	*	1¾ lb./0.8kg.	1¾ lb./0.8kg.	1¾ lb./0.8kg.
ASTM Designation	Type I Class A Grade 5	Type I Class A Grade 5	Type I Class B Grade 5	Type I Class B Grade 5	Type II Class B Grade 5	Type I Class A Grade 5	Type I Class A Grade 5	Type I Class A Grade 5

^{*}C6000386 has 1-1/4" x 6' Epoxiglas® Pole and total weight of 3¾ lb. (1.7 kg.).

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 3005

CHANCE®

C-Type Grounding Clamps



G33672
Aluminum body,
Smooth jaws,
Bronze eyescrew
with Acme threads,
Bronze pressure-type threads



C6001733
Aluminum body,
Smooth jaws,
Bronze eyescrew
with Acme threads,
Tapped for 5%-11 UNC threaded ferrule



C6000375
Aluminum body,
Serrated jaws,
Bronze eyescrew
with Acme threads,
Dual drilled for 5%-11 UNC threaded ferrule

Bus-Bar Grounding Clamps:



G3369
Aluminum body,
Smooth jaws,
Bronze eyescrew
with Acme threads,
Bronze pressure-type terminal



Catalog Number	G33672	C6001733	C6000375	G3369	C6000337
ELECTRICAL RATINGS	•				
Continuous Current (AMPS)	400	400	400	400	400
Fault Current - 15 Cycles (AMPS)	43,000	43,000	†70,000	43,000	43,000 †60,000
Fault Current - 30 Cycles (AMPS)	30,000	30,000	†50,000	30,000	30,000 †60,000
MECHANICAL RATINGS	•	•			
Recommended Torque (inlb.)	250	250	300	300	300
Main Line Range - Max.	2-1/2" O.D. Bus	2-1/2" O.D. Bus	3" O.D. Bus	4" x 4" Square 4.5" O.D. Bus	6-5/8" O.D. Bus
Main Line Range - Min.	#4 Str. Cu. (0.232")	#4 Str. Cu. (0.232")	0.50" O.D. Bus	4/0 Str. Cu. (0.500")	3-1/2" O.D. Bus
Jumper Range - Max.	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug
Weight Each	2-3/8 lb./1.1kg.	2-3/8 lb./1.1kg.	3 lb./1.4kg.	5-1/4 lb./2.4kg.	6 lb./2.7 kg.
ASTM Designation	Type I Class A Grade 5	Type I Class A Grade 5	Type I Class B Grade 7	Type I Class A Grade 5	Type I Class A Grade 6

†Rating with twin-grounding cables.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3006 March 2013



Snap-On (Duckbill-type) Grounding Clamps



G18102
Aluminum body,
Bronze upper jaw,
Smooth jaws,
Bronze eyescrew
with fine threads,
Bronze pressure-type terminal



G36221
Aluminum body,
Smooth jaws,
Bronze eyescrew
with fine threads,
Bronze pressure-type terminal





T6000806
Aluminum body,
Serrated jaws,
Bronze eyescrew
with fine threads,
Bronze pressure-type terminal

	T	1	Γ	
Catalog Number	G18102	G36221	*HG37061	T6000806
ELECTRICAL RATINGS				
Continuous Current (AMPS)	300	400	400	400
Fault Current - 15 Cycles (AMPS)	27,000	43,000	34,000	43,000
Fault Current - 30 Cycles (AMPS)	20,000	30,000	25,000	30,000
MECHANICAL RATINGS				
Recommended Torque (inlb.)	250	250	300	300
Main Line Range - Max.	250 kcmil Str. Cu. 4/0 ACSR (0.574")	566 kcmil Cu. 900 kcmil ACSR (1.162")	566 kcmil Cu. 900 kcmil ACSR (1.162")	1590 kcmil ACSR (1.625")
Main Line Range - Min.	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	0.5"
Jumper Range - Max.	2/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug
Weight Each	1-1/2 lb./0.6 kg.	1-1/2 lb./0.6 kg.	*	1-3/4 lb./0.8 kg.
ASTM Designation	Type I Class A Grade 3	Type I Class A Grade 5	Type II Class A Grade 4	Type I Class B Grade 5

^{*}HG37061 has $1\frac{1}{4}$ " x 6' Epoxiglas® Pole and total weight of $3\frac{1}{2}$ lb. (1.6 kg.).

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 3007



Snap-On (Duckbill-type) Grounding Clamps



Catalog Number	C6001734	*C6000198	C6000197	C6001757	C6000434
ELECTRICAL RATINGS					
Continuous Current (AMPS)	400	400	400	400	400
Fault Current - 15 Cycles (AMPS)	43,000	43,000	43,000	43,000	43,000
Fault Current - 30 Cycles (AMPS)	30,000	30,000	30,000	30,000	30,000
MECHANICAL RATINGS	·				
Recommended Torque (inlb.)	250	250	250	250	250
Main Line Range - Max.	566 kcmil Cu. 900 kcmil ACSR (1.162")	950 kcmil Cu. 1510 kcmil ACSR (1.506")	950 kcmil Cu. 1510 kcmil ACSR (1.506")	2.5"	950 kcmil Cu. 1510 kcmil ACSR (1.506")
Main Line Range - Min.	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	#6 Sol. Cu. (0.162")	0.75"	#6 Sol. Cu. (0.162")
Jumper Range - Max.	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min.	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug
Weight Each	1-1/2 lb./0.7 kg.	*	1-1/2 lb./0.7 kg.	2-1/4 lb./1.0 kg.	1-1/2 lb./0.7 kg.
ASTM Designation	Type I Class A Grade 5	Type II Class B Grade 5	Type I Class B Grade 5	Type I Class A Grade 5	Type I Class B Grade 5

^{*}C6000198 has $11\!\!/\!\!4$ " x 6' Epoxiglas® Pole and total weight of $31\!\!/\!\!2$ lb. (1.6 kg.).



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3008 March 2013

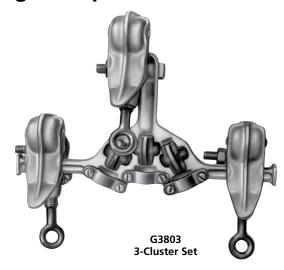


Cluster Grounding Clamps



with C-Type Aluminum-body clamps,

Smooth jaws, Bronze eyescrews with Acme threads, and 3-phase Aluminum cluster bar with Bronze Pressure-type terminals



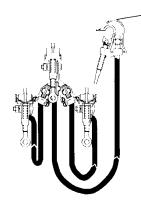
with Snap-On (Duckbill-type) Aluminum-body clamps,

Smooth jaws, Bronze eyescrews with fine threads, and 3-phase Aluminum cluster bar with Bronze Pressure-type terminals

Important Note:

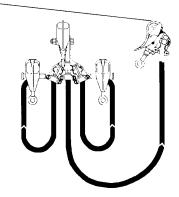
Cluster Sets are furnished as shown above. The center clamp is bolted to the cluster bar.

Typical fourth ground clamp (not included in 3-Cluster Set, must be ordered as separate item)



These drawings illustrate how Cluster Sets are to be connected, with grounding cable and a fourth clamp which must be ordered separately.

For cable and ferrules, see page 3018-3019.



Catalog Number	G3405	G3803
ELECTRICAL RATINGS		
Continuous Current (AMPS)	350	400
Fault Current - 15 Cycles (AMPS)	27,000	34,000
Fault Current - 30 Cycles (AMPS)	20,000	25,000
MECHANICAL RATINGS		
Recommended Torque (inlb.)	250	250
Main Line Range - Max.	400 kcmil Str. Cu. 636 kcmil ACSR (.998")	566 kcmil Cu. 900 kcmil AC
Main Line Range - Min.	#8 Sol. Cu. (0.12")	#6 Sol. Cu. (0.162")
Jumper Range - Max.	2/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug
Weight Each	4 ½ lb./2 kg.	6 % lb./3 kg.
ASTM Designation	Type I Class A Grade 3	Type I Class A Grade 4

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 3009

CHANCE®

Tower & Flat-Face Grounding Clamps



C6002232
Bronze body,
Serrated jaws,
Bronze eyescrew
with Acme threads,
Drilled for 5%-11 UNC threaded ferrule
or T6003196,
Tapped for 5%-11 UNC threaded ferrule



G33633SJ Aluminum body, Serrated jaws, Bronze eyescrew with fine threads, Bronze pressure-type terminal



C6001735
Aluminum body,
Serrated jaws,
Bronze eyescrew
with fine threads,
Tapped for 5%-11 UNC threaded ferrule



C6002231
Bronze body,
Serrated jaws,
Bronze T-handle
with Acme threads,
Drilled for 5%-11 UNC threaded ferrule
or T6003195,



G33634SJ Aluminum body, Serrated jaws, Bronze T-handle with fine threads, Bronze pressure-type terminal



T6001798
Aluminum body,
Serrated jaws,
Bronze T-handle
with Acme threads,
Tapped for 5%-11 UNC threaded ferrule

Tapped for %-11 UNC threade	d ferrule					
Catalog Number	C6002232	G33633SJ	C6001735	C6002231	G33634SJ	T6001798
ELECTRICAL RATINGS						
Continuous Current (AMPS)	400	400	400	400	400	400
Fault Current - 15 Cycles (AMPS)	43,000	27,000	27,000	43,000	27,000	27,000
Fault Current - 30 Cycles (AMPS)	30,000	20,000	20,000	30,000	20,000	20,000
MECHANICAL RATINGS						
Recommended Torque (inlb.)	250	250	250	250	250	250
Main Line Range - Max.	1½" Angles 1½" Flat	1½" Angles 1½" Flat	1½" Angles 1½" Flat	1½" Angles 1½" Flat	1½" Angles 1½" Flat	1½" Angles 1½" Flat
Main Line Range - Min.	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Jumper Range - Max.	4/0 Grd. Cable w/Threaded Stud	2/0 Grd. Cable w/Plain Plug	2/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud	2/0 Grd. Cable w/Plain Plug	2/0 Grd. Cable w/Threaded Stud
Jumper Range - Min.	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud
Weight Each	2 lb./0.9 kg.	15/8 lb./0.7 kg.	1½ lb./0.7 kg.	2 lb./0.9 kg.	15/8 lb./0.7 kg.	1½ lb./0.7kg.
ASTM Designation	Type I Class B Grade 5	Type I Class B Grade 3	Type I Class B Grade 3	Type III Class B Grade 5	Type III Class B Grade 3	Type III Class B Grade 3



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3010 March 2013



Tower & Flat-Face Grounding Clamps



G33631

Bronze body,

Serrated jaws,

Bronze eyescrew

with fine threads,

Bronze pressure-type terminal



Aluminum body and retainer,
Bronze scrubber-type contact pads,
Bronze T-handle
with fine threads,
Bronze pressure-type terminal



G33632 Bronze body, Serrated jaws, Bronze T-handle with fine threads, Bronze pressure-type terminal

March 2013



C6001783
Bronze body,
Serrated jaws and retainers,
Tapped for 5/8-11 UNC threaded ferrule

bronze pressure-type terminar				
Catalog Number	G33631	G33632	C6000085	C6001783
ELECTRICAL RATINGS		•		
Continuous Current (AMPS)	400	400	400	400
Fault Current - 15 Cycles (AMPS)	27,000	27,000	43,000	43,000
Fault Current - 30 Cycles (AMPS)	20,000	20,000	30,000	30,000
MECHANICAL RATINGS				
Recommended Torque (inlb.)	250	250	250	300
Main Line Range - Max.	1½" Angles 1½" Flat	1½" Angles 1½" Flat	4" Structural Angles	3/4" x 5"Angles or Flats 5/8" Rod
Main Line Range - Min.	1/8"	1/8"	2" Structural Angles	1/8"
Jumper Range - Max.	2/0 Grd. Cable w/Plain Plug	2/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud
Weight Each	2½ lb./1.1 kg.	2½ lb./1.1 kg.	3¾ lb./1.1 kg.	5 lb./2.25 kg.
ASTM Designation	Type I Class B Grade 3	Type III Class B Grade 3	Type III Class B Grade 5	Type III Class B Grade 5

 $Phone: 573\text{-}682\text{-}5521 \;\; Email: hpsliterature@hubbell.com \;\; Web: hubbellpowersystems.com$





All-Angle Grounding Clamps Aluminum Bodies with Serrated Jaws

For installation ease, jaws pivot 75° left or right.





(Clamp same as G42291SJ)

G42291SJ *Pressure Terminal

* For adapter to convert to threaded terminal, see Page 3019.

· '		
Catalog Number	G42291SJ	†HG42296SJ
ELECTRICAL RATINGS		
Continuous Current (AMPS)	400	400
Fault Current - 15 Cycles (AMPS)	43,000	43,000
Fault Current - 30 Cycles (AMPS)	30,000	30,000
MECHANICAL RATINGS		
Recommended Torque (inlb.)	250	250
Main Line Range - Max.	954 kcmil ACSR (1.196")	954 kcmil ACSR (1.196")
Main Line Range - Min.	#2 Cu. (.258")	#2 Cu. (.258")
Jumper Range - Max.	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug
Weight Each	2 lb./0.9 kg.	4½ lb./2.0 kg.
ASTM Designation	Type I Class B Grade 5	Type II Class B Grade 5

[†]Mounted Clamps supplied with 11/4" x 6' Epoxiglas® Pole.



G422810SJ *Bronze Pressure Terminal



HG422816SJ *Bronze Pressure Terminal (Clamp same as G4228-10SJ)



T6001693 Tapped for 5/8-11 UNC threaded ferrule Tapped for 5/8-11 UNC (Two single serrated jaws, for pothead and bus applications)



C6001732 threaded ferrule

* For adapter	r to convert to	threaded	terminal sec	Page 3019

1 Of date	apter to convert to the	ireaded terrimial, se	c ruge sors.	
Catalog Number	G422810SJ	†HG422816SJ	T6001693	C6001732
ELECTRICAL RATINGS				
Continuous Current (AMPS)	400	400	400	400
Fault Current - 15 Cycles (AMPS)	43,000	43,000	43,000	43,000
Fault Current - 30 Cycles (AMPS)	30,000	30,000	30,000	30,000
MECHANICAL RATINGS				
Recommended Torque (inlb.)	250	250	250	250
Main Line Range - Max.	2.88"	2.88"	2.88"	2.88"
Main Line Range - Min.	#2 Cu. (.258")	#2 Cu. (.258")	#2 Cu. (.258")	#2 Cu. (.258")
Jumper Range - Max.	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Threaded Stud	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Threaded Stud	#2 Grd. Cable w/Threaded Stud
Weight Each	3¼ lb./1.5 kg.	5¼ lb./2.4 kg.	3¼ lb./1.5 kg.	3¼ lb./1.5 kg.
ASTM Designation	Type I Class B Grade 5	Type II Class B Grade 5	Type I Class B Grade 5	Type I Class B Grade 5

[†]Mounted Clamps supplied with $1\frac{1}{4}$ " x 6' Epoxiglas® Pole.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3012 March 2013

Apparatus Grounding Clamps

Ball-and-socket design for multiple uses

- For restricted-space applications and as a truckgrounding system, this compact design delivers a highcurrent rating usually associated with only large clamps
- Applies to a wide range of switching equipment, including:
 - o Industrial metalclad gear
 - o Substations indoors and out
 - o Distribution overhead and underground
- For trucks, a *ball stud permanently mounts on each
- For three-phase livefront set, see page 3015
- Two clamp styles and three ball-stud lengths adapt to many applications
- Clamp bodies, eyescrews and *ball-studs are bronze alloy
- Tin-plated ball-studs have nominal 1"-diameter ball and stud to fit NEMA terminal pads
- Lockwasher and nut are silicone bronze
- ASTM Designation of Type I, Class A, Grade 5 for any of these clamps is met if associated grounding-cable sets are fitted with 5/8" copper ferrules as on page 3019

Fault Current Ratings

43,000 Amps — 15 cycles 30,000 Amps — 30 cycles

Recommended Installing Torques:

Eyescrew 250 inch-pounds *Ball Stud 300 inch-pounds



Long stud shank accepts most types of grounding clamps

Socket clamps provide multi-angle attachment of grounds







Clamp C6002101 Tapped for 5/8-11 UNC threaded ferrule

for threaded stud ferrule on #2 to 4/0 grounding cable



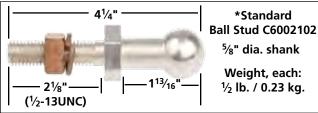
Clamp T6002320 Tapped for 5/8-11 UNC threaded ferrule

for threaded stud ferrule on #2 to 4/0 groundon #2 to 4/0 grounding cable

Clamp C6002300 with pressure terminal

for plain-plug ferrule ing cable

Weight, each clamp on this page: 1 lb. / 0.45 kg.

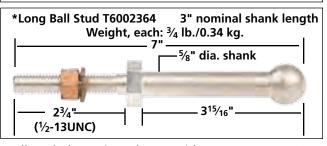




*Female-Thread **Ball Stud T6002867**

5/8" dia. shank

Weight, each: ½ lb./0.23 kg.



*Ball-studs do not interchange with system on page 3014.

Grounding Stud Cover - fits onto 1" ball-studs of Apparatus Grounding Clamps above

Features & Applications

• Flexible cover fits only C6002102 or T6002364 ball-studs

Made with same material as Chance line hose

Nonconductive cover may help prevent flashover on ball studs installed in enclosed switchgear, switchyards

- Cover is not intended for personnel protection and should not be considered as insulative cover-up equipment
- Resilient ozone/corona-resistant thermo-plastic elastomer does not absorb water
- Special formulation resists aging/checking and retains high-visibility orange color

Catalog No.	Description	Weight
C4060416	Grounding Stud Cover	1 oz. (28 g.)



- Snap-fit keeps cover in place
- 5/8"-I.D. loop at top permits hot-line tools to "pop" it on and off
- Chance silicone lubricant C4002320 or C4170287 may ease installation and removal

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 3013

Three-Way Grounding Clamp for *ball-stud, conductors, busbars



Features & Applications

- By supporting other clamps in three-phase sets, ball studs reduce installation labor
- This can contribute to safety and minimize the number of clamp connections per conductor in an overhead grounding scheme
- *Ball-studs mount without furnished washers in holes of lower clamp boss
- The tapped holes ship with plastic plugs
- Clamp terminal is tapped for 5/8"-11 UNC threadedstud ferrules on grounding cable from #2 through 4/0
- Versatile clamp serves such temporary-grounding uses as: o A truck-grounding system
 - o On industrial metalclad switchgear
 - o Substation buswork, indoors and out
 - o Overhead, underground and substation switches
- o Three-phase ground sets with special, multi-angle *ball studs









- Compact design delivers high-current rating associated with large clamps
- For grounding trucks or other equipment, *ball stud permanently mounts on each body with furnished lockwasher, flat washer and nut
- Removable stud has recessed-hex end fitting for through-mounting versatility
- Clamp body is aluminum
- Acme-threaded eyescrew and *ball-stud are bronze
- Tin-plated ball-stud has 20mm (0.788") diameter ball, 7/8"-hex fitting and 1-1/2"-long 1/2"-13 threads to fit NEMA terminal pads
- ASTM Designation of Type I, Class A, Grade 5 is met if associated grounding-cable sets are fitted with copper ferrules as on page 3018

Clamp Main Line Range

- Bare Conductors from #8 Sol. Cu. through 636 ACSR
- Flat Busbar through 1/4" x 1-1/4" maximum
- Ball-Stud 20mm (0.788") only

Fault current ratings: 43,000 amps — 15 cycles 30,000 amps — 30 cycles

Recommended Installing Torques:

Eyescrew 250 inch-pounds *Ball Stud 300 inch-pounds

Catalog No.	Description	Weight, each
C6002316	Three-Way Clamp Body only	1½ lb./0.68 kg.
	*20mm (0.788") diameter Ball	
C6002317	Stud with flat washer, lockwasher	3⁄ ₈ lb./0.2 kg.
	and nut	

*Ball-stud does not interchange with system on page 3013.

Penetrator clamps, ground sets for underground cable

Features & Applications

- For temporary grounding of underground distribution
- Cable with jacket over concentric neutral, special clamps help ensure contact with center conductor
- Chisel-point clamp main-line capacity is 1-1/2"
- C-Type clamp in Chisel Sets fits conductors from #6 (0.162") to 636 kcmil ACSR (0.998")
- Spike-point clamp main-line capacity is 2-1/2"
- C-type clamp in Spike Set fits conductors from #6 (0.162") to 2" O.D. bus
- Screw-type copper-clad ground rod in sets indicated is 24" long for easy handling
- Helix (spiral) and handle are bronze
- Each set includes:
- o 6-ft. of #2 copper clear-jacket ground cable and
- o A penetrator clamp (choice of hardened-steel 1/2"wide chisel or conical spike)
- o C-type grounding clamp

Catalog No.	Description	Weight, each
C6001626	Chisel Clamp only	1¾ lb./0.8 kg.
P6001623P	Replacement Chisel Point	2 oz./0.09 kg.
T6002234	Chisel Set with Ground Rod	9¾ lb./4.4 kg.
C6001625	Chisel Set without Ground Rod	4½ lb./2 kg.
T6001922	Spiked Clamp only	1¾ lb./0.8 kg.
P6001969P	Replacement Spike Point	2 oz./0.09 kg.
T6002233	Spiked Set with Ground Rod	8 lb./3.6 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Underground Distribution Grounding Sets



Grounded Parking Bushing Sets for Single- or Three-Phase Switches & Transformers

- Set includes a loadbreak bushing and bronze ground clamp T6000466 connected by a 4' yellow 1/0 cable
- Tin-plated copper connector joins cable to bushing
- Threaded copper ferrule connects the cable to the clamp
- Fault current rating for each set: 10,000 amps for 10 cycles

Catalog No.	*Application	Weight, each
T6003091	15kV	8 lb. / 3.6 kg.
T6003092	25 & 35kV small interface	9 lb. / 4.09 kg.



Grounding Elbow Sets for Single- or Three-Phase Switches & Transformers

- · Set includes:
 - o Yellow-jacketed elbow for the voltage-class indicated below
 - o Six feet of 1/0 copper grounding cable with yellow jacket
 - o Bronze ground clamp T6000466
- Fault current rating for each set: 10,000 amps for 10 cycles

C6000729	15kV set	4 lb./1.80 kg.
T6002131	25 & 35kV small interface set	6 lb./2.7 kg.
C6001927	35 kV large interface set	8 lb./3.63 kg.



Three-Phase Grounding Elbow Sets for Switches & Transformers

- Each of these sets consists of:
- o A three-way terminal block assembly
- o Three 6' lengths of 1/0 copper ground cable with yellow jacket
- o A bronze ground clamp T6000466
- o Three yellow elbows
- Fault current rating for each set: 10,000 amps for 10 cycles

C6003102	15kV set	14.5 lb./6.5 kg.
C6003103	25 & 35kV small interface set	15 lb./6.75 kg.
PSC6003103003	35kV large interface set	16 lb./7.25 kg.



Class A, Grade 2

T6002246

T6002375



Replacement Parts: Grounding Elbow ONLY

215GEHSG	15kV - elbow only	1.9 lb./0.88 kg.
225GEHSG	25 & 35kV small interface - elbow only	2.0 lb./0.9 kg.
235GEHSG	35kV large interface - elbow only	4.0 lb./1.8 kg.

All Copper	Connector	ONLY
------------	-----------	------

1		
200LUGC6	for 1/0 Grounding Cable	1.8 oz./40 g.
200LUGC7	for 2/0 Grounding Cable	1.8 oz./40 g.

Elbow Probes ONLY

215LBP	15 kV Probe	5.3 oz./150.3 g.
225LBP	25 kV Probe	7.0 oz./198.4 g.
235LBP	35 kV Probe	1.0 lb./0.45 kg.

Temporary Grounding Sets for Live-Front Switches and Transformers

•	•	
C6000758	C-Clamp Set	15 lb /6 8 kg

Fault current ratings: 21,000 amps for 15 cycles or 15,000 amps for 30 cycles C-clamps are Cat. No. T600-0466.

C6000758 • Each C-Clamp set includes: ASTM Type I,

o A three-way aluminum terminal block

o Four bronze ground clamps

o Three 6' lengths of 1/0 copper clear-jacket ground cable with threaded-stud ferrules

16.5 lb./7.4 kg. T6002246 Ball Socket Set

Fault current ratings: 27,000 amps for 15 cycles or 20,000 amps for 30 cycles

- Each Ball-Stud set includes:
 - o A three-way copper terminal block
 - o Four bronze ground clamps

o Three 6' lengths of 2/0 copper clear-jacket ground cable with threaded-stud ferrules Flat-Face Clamp Set

Fault current ratings: 21,000 amps for 15 cycles

or 15,000 amps for 30 cycles

Each set Includes:

March 2013

- A four-way bronze terminal block
- One 6' and three 4' lengths of 1/0 copper clear-jacket ground cable with shrouded plain-plug copper ferrules
- Three aluminum ground clamps with bronze eyescrews (G33633SJ)
- One with bronze T-handle (G3363-4SJ)

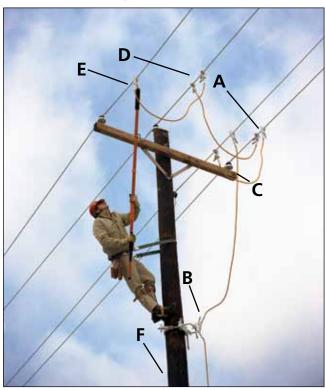
*For storage bag T6000865, see page 3021.





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

CHANCE®



Chance grounding clamps, ferrules and cable meet ASTM F 855.



Overhead Distribution Grounding Sets with Pressure-Type Terminals Features & Applications

- These complete sets of ground clamps, cable and accessories
- All equipment needed for many types of distribution structures in easy-to-use kits Ferrules are factory crimped to the grounding cable
- Each kit comes with C6002276 clamps
- Can be used on conductors ranging from #8 to 1033 kcmil ACSR

These kits were designed for use on the following types of structures:

7.2/12.5 kV	A1 through C24
	VA1 through VC9-3
46 kV	TP1 through TP5
69 kV	TS1 through TS3-2

The tables below list the components **completely assembled** in each of the Distribution Grounding Sets.

#2 Grounding Cable Set* (44 lb./20 kg.) Catalog No. T6000641 consists of:

Item	Description	Quantity	Information
Α	Serrated jaw, "C" Clamp Cat. No. C6002276	10	For Plain Plug fer- rules
В	Ground Cluster Support	1	Cat. No. T6001549
С	#2 Copper Ground Cable Cat. No. S6449	60 ft.	3 Cables 6 ft. long 1 Cable 12 ft. long 1 Cable 30 ft. long
D	#2 Plain Plug Ferrules	10	Cat. No. C6002626
Е	Clamp Support Stud	3	Cat. No. G3626
F	Screw Ground Rod	1	Cat. No. G3370

1/0 Grounding Cable Set* (58 lb./26 kg.) Catalog No. T6003094 consists of:

Item	Description	Quantity	Information
Α	Serrated jaw, "C" Clamp	10	For Plain Plug fer-
	Cat. No. C6002276		rules
В	Ground Cluster Support	1	Cat. No. T6001549
С	1/0 Copper Ground Cable Cat. No. S7568	60 ft.	3 Cables 6 ft. long 1 Cable 12 ft. long 1 Cable 30 ft. long
D	1/0 Plain Plug Ferrules	10	Cat. No. C6002627
E	Clamp Support Stud	3	Cat. No. G3626
F	Screw Ground Rod	1	Cat. No. G3370

2/0 Grounding Cable Set* (60 lb./27 kg.) Catalog No. T6003095 consists of:

Item	Description	Quantity	Information
Α	Serrated jaw, "C" Clamp Cat. No. C6002276	10	For Plain Plug fer-
	Cat. No. C6002276		rules
В	Ground Cluster Support	1	Cat. No. T6001549
С	2/0 Copper Ground Cable Cat. No. S6450	60 ft.	3 Cables 6 ft. long 1 Cable 12 ft. long 1 Cable 30 ft. long
D	2/0 Plain Plug Ferrules	10	Cat. No. C6002628
E	Clamp Support Stud	3	Cat. No. G3626
F	Screw Ground Rod	1	Cat. No. G3370

4/0 Grounding Cable Set* (77 lb./35 kg.) Catalog No. T6003096 consists of:

Item	Description	Quantity	Information
А	Serrated jaw, "C" Clamp Cat. No. C6002276	10	For Plain Plug fer- rules
В	Ground Cluster Support	1	Cat. No. T6001549
С	4/0 Copper Ground Cable Cat. No. S6451	60 ft.	3 Cables 6 ft. long 1 Cable 12 ft. long 1 Cable 30 ft. long
D	4/0 Plain Plug Ferrules	10	Cat. No. C6002629
E	Clamp Support Stud	3	Cat. No. G3626
F	Screw Ground Rod	1	Cat. No. G3370

^{*}For storage bag T600-0865, see page 3021.

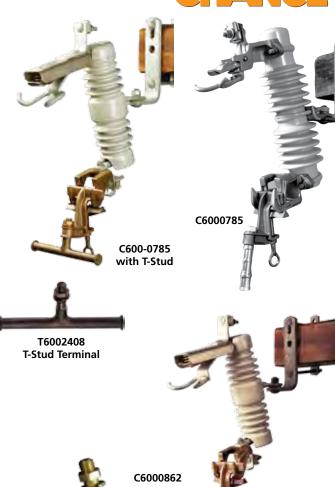


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3016 March 2013

Cutout Grounding Clamps Features & Applications

- Bronze clamp used to ground bottom hinge contact on cutouts used on distribution riser poles or where grounding is required
- Fits these cutouts:
 oChance F2, F3, and C Cutouts
 oWestinghouse LDX, Southern States B-80
 oSouthern States Series 63
 oJoslyn; S&C Type SX
 oMcGraw-Edison LMO, and GE Durabute
- Clamp can be installed with or without grounding cable
- Serves as a warning and helps avoid accidental closing of cutout
- Clamp's drilled terminal accepts threaded-stud cable ferrules
- Also accepts threaded L-Stud and T-Stud Terminals (3/4" diameter bronze) for use with conventional groundclamp cable sets
- Fault Current rating: 20,000 amps for 30 cycles



Switch Blade Grounding Clamps Features & Applications

- Attaches temporary ground to open switch during deenergized maintenance
- Helps keep ground lead away from energized switch iaw
- Shaped to fit blades of Chance Type M3 Disconnect switches
- Drilled terminal accepts threaded-stud ferrules on grounding cable from #2 through 4/0
- Also accepts threaded L-Stud Terminal (3/4" diameter bronze) for use with conventional ground-clamp cable sets

ASTM Designation: Type I, Class A, Grade 5 **Fault Current ratings:** 30,000 amps for 30 cycles

43,000 amps for 15 cycles with L-Stud Terminal: 20,000 amps for 30 cycles

Recommended torque: 250 inch pounds

Main Line Range: $\frac{3}{4}$ " x $\frac{1}{8}$ " flat through $2\frac{1}{2}$ " x $\frac{1}{4}$ " flat

Catalog No.	Description	Weight, each
C6002145	Plain eyescrew Switch Clamp	3½ lb./1.7 kg.
C6002146	T-handle/eyescrew Clamp	3½ lb./1.7 kg.
C6000841	L-Stud Terminal only	1 lb./0.5 kg.





T-handle/eyescrew

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 3017

C6000841 L-Stud Terminal

CHANCE"

Substation Grounding Sets

with Pressure-Type Terminals

Features & Applications

- · For grounding substation bus when de-energized for maintenance
- Makes workmen's job safer and easier
- Large capacity bus clamps are available in mounted
- Reaches any manageable height
- Increases worker's lifting capabilities
- Plastisol coated, Shepherd Hook Lift Stick, with block and rope assembly
- Reduces capacity clamps on overhead bus
- Two sizes of mounted clamps are available:
- o C6000618 has 6-5/8" bus capacity, utilizing a C6000337 ground clamp mounted on 1-1/4" x 9 ft. Epoxiglas® Pole
- o C6000619 has 4" bus capacity, utilizing a G3369 ground clamp mounted on 1-1/4" x 8'10" Epoxiglas®
- Cables, ferrules and small grounding clamps should be ordered separately

Accessories

C6000617 — Lift Hook Assembly, 11/4" x 8'8" Epoxiglas® pole, includes block and rope assembly.

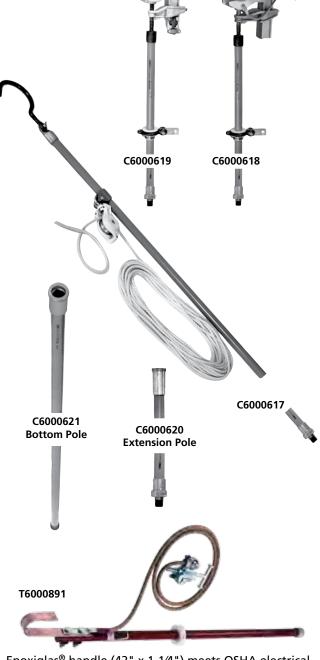
C6000620 — 11/4" x 12' Extension Pole (middle section). C6000621 — 11/4" x 8' Bottom Pole.

Catalog Number	C6000618	C6000619	
ELECTRICAL RATINGS			
Continuous Current (AMPS)	400	400	
Fault Current - 15 Cycles (AMPS)	43,000	43,000	
Fault Current - 30 Cycles (AMPS)	30,000	30,000	
MECHANICAL RATINGS			

Recommended Torque (inlb.)	250	250
Main Line Range - Max.	6%" Angles	4½" Angles
Main Line Range - Min.	4½" Round Bus	1/0 Str. Copper (0.368")
Jumper Range - Max.	4/0 Grd. Cable w/Plain Plug	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min.	#2 Grd. Cable w/Plain Plug	#2 Grd. Cable w/Plain Plug
Weight Each	10 lb./4.5 kg.	9 ¹ / ₄ lb./4.2 kg.
ASTM Designation	Type II Class A Grade 5	Type II Class A Grade 5

Electro-Static Precipitator Grounding Tool Set Simple Safety Procedures

- Drains off static charges that remain on collector plates after electrostatic-precipitator pollution-control equipment is de-energized
- When electrical system of precipitator is de-energized: o First, secure the tool's grounding clamp to a known
- o Next, use insulated handle to bring the Copper hook in contact with the precipitator collector plates
- o Contact hook hangs from collector plates (with the grounding clamp still attached to ground) while service is performed on precipitator
- o When maintenance is completed, use insulated handle to remove contact hook from collector plates
- o Finally, remove the ground clamp before reenergizing the precipitator



- Epoxiglas[®] handle (42" x 1-1/4") meets OSHA electrical requirements
- Gives operator sufficient added reach needed to make
- Contact hook of 98%-conductive Copper is doublebolted to handle
- T-handle aluminum grounding clamp with serrated flat-face jaw ensures proper bonding
- Jaws open to 1-1/2" for attachment to grounded structural angles, flats or rods
- Extra-flexible (1638 strands) Copper grounding cable, 7 ft., with clear jacket fitted with copper terminal at each end gives high current-carrying capability

Catalog No.	Description	Weight, each
T6000891	Electrostatic Grounding Set	7 lb./3.2 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

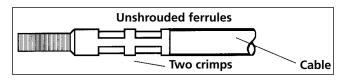
Page 3018 March 2013

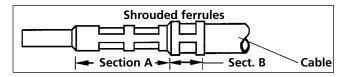
Grounding Ferrules

Selection Criteria

- Shrouded ferrules overlap onto the grounding cable jacket for stress relief to the terminal. Two crimps secure the ferrule against the bare strands and one crimp applies on the jacket
- Unshrouded ferrules are available with shrink tubing that overlaps the bare cable conductor and jacket for stress relief
- Available either factory-installed in pairs on any cable length specified or as separate individual units, the ferrules install simply with a hydraulic crimping tool. Complete illustrated installation instructions come with the ferrules and include a table for the crimping die sizes to use







Copper ferrules -

Plain-plug type for pressure-type grounding-clamp terminals

Shrouded plain copper ferrules

Sineaded plant copper ferrales			
1 unit each, not installed	Burndy Die No.† or equivalent		Cable Size,
Catalog No.	Sect. A	Sect. B	AWG
C6002630	U165	U166	#2
C6002631	U165	U168	"1/0"
C6002632	U165	U-L	"2/0"
C6002633	U166	U-L	"4/0"

Unshrouded plain copper ferrules					
1 unit each, not installed Catalog No.	Burndy Die No.† or equivalent	Cable Size, AWG			
C6002614	U165	#2			
C6002615	U165	"1/0"			
C6002616	U165	"2/0"			
C6002617	U166	"4/0"			

Threaded-stud type for tapped or drilled grounding-clamp terminals

Shrouded threaded copper ferrules

C6002622	U165	U166	#2
C6002623	U165	U168	"1/0"
C6002624	U165	U-L	"2/0"
C6002625	U166	U-L	"4/0"

Unshrouded threaded copper ferrules						
C6002606	U165	#2				
C6002607	U165	"1/0"				
C6002608	U165	"2/0"				
C6002609	U166	"4/0"				

Tin-Plated Copper ferrules -

Plain-plug type for pressure-type grounding-clamp terminals

Shrouded plain tin-plated copper ferrules

C6003119	U165	U166	#2
C6003120	U165	U168	"1/0"
C6003121	U165	U-L	"2/0"
C6003122	U166	U-L	"4/0"

onsiliouded plain till-plated copper ferrules					
C6003111	U165	#2			
C6003112	U165	"1/0"			
C6003113	U165	"2/0"			

U166

Threaded-stud type for tapped or drilled grounding-clamp terminals

Shrouded threaded tin-plated copper ferrules

Sillouded tilleaded till-plated copper ferrules					
C6003115	U165	U166	#2		
C6003116	U165	U168	"1/0"		
C6003117	U165	U-L	"2/0"		
C6003118	U166	U-L	"4/0"		

	Unshrouded threaded tin-plated copper ferrules					
	C6003107	U165	#2			
	C6003108	U165	"1/0"			
	C6003109	U165	"2/0"			
	C6003110	U166	"4/0"			
_						

[†]Anderson die-less VERSA-CRIMP™ compression tools require no dies and are capable of making these crimped connections. If using another crimp tool brand, contact that manufacturer for Burndy die equivalents.

Copper Grounding Cable

- Extra-flexible for handling ease yet strong and tough for long wear
- Jacketing is smooth, abrasion, weather and oil resistant
- In accordance with applicable ASTM Specifications, marked with AWG size approximately every 4 feet
- Yellow and black jackets are T-prene rubber compound with -20°F recommended low temperature
- Clear jackets (which allow visual inspection of strand conditions) are ultraviolet-inhibited Poly Vinyl Chloride
- Recommended low temperature for PVC-jacketed cable
- Extra-flexible cables, because of their extra-fine strands
- · Require termination ferrules when used with ground

Either aluminum or copper ferrules may be used with copper

Catalog	Size	Strands*	Diameter	Approx. O.D.	Approx. Wt.
Number	AWG	Stranus*	(Inches)	(Inches)	(lb./1,000 ft.)
Yellow-Jacke	t Copper	Cable			
S6116	#2	665	0.32	0.55	280
S6117	"1/0"	1045	0.41	0.66	425
S6118	"2/0"	1330	0.47	0.73	520
S6119	"4/0"	2109	0.59	0.87	760
Clear-Jacket	Copper C	able			
S6449	#2	665	0.344	0.53	289
S7568	"1/0"	1050	0.445	0.63	520
S6450	"2/0"	1323	0.487	0.70	546
S6451	"4/0"	2107	0.616	0.84	841
Black-Jacket	Copper C	able			
S3713	#2	665	0.32	0.55	280
S3715	"1/0"	1045	0.41	0.66	425
S3712	"2/0"	1330	0.47	0.73	510
S3714	"4/0"	2109	0.59	0.87	760
*Varies with manufacturer.					

C6003114



"4/0"



Aluminum ferrules

Plain-plug type for pressure-type grounding-clamp terminals

Shrouded plain aluminum ferrules

1 unit each, not installed	Burndy Die No.† or equivalent		Cable Size,
Catalog No.	Sect. A	Sect. B	AWG
C6002626	U165	U166	#2
C6002627	U165	U168	1/0
C6002628	U165	U-L	2/0
C6002629	U249	U-L	4/0





Features & Applications

- Visual inspection of cable condition through clear heat-shrink tube determines breakage or corrosion that otherwise requires continuity test
- Factory-assembled units expose 1/2" of cable strands at junction point

Factory-crimped, above



Unshrouded plain aluminum ferrules

1 unit each, not installed Catalog No.	Burndy Die No.† or equivalent	Cable Size, AWG
C6002610	U165	#2
C6002611	U165	1/0
C6002612	U165	2/0
C6002613	U249	4/0

Shrink tubing for plain ferrules Features & Applications

- Clear heat-shrink tubes limit corrosion
- Excludes moisture
- Stress-relief for cable jacket and ferrule-to-stranding connection

Part No.	Lengths
P6001593P	5"
P6001982P	7"
P6002069P	9"

[†]Anderson die-less VERSA-CRIMP® compression tools require no dies and are capable of making these crimped connections. If using another crimp tool brand, contact that manufacturer for Burndy die equivalents.

Threaded-stud type for tapped or drilled grounding-clamp terminals Shrouded threaded aluminum ferrules

1 unit each, not installed	Burndy Die No. [†] or equivalent		Cable Size,		
Catalog No.	Sect. A	Sect. B	AWG		
C6002618	U165	U166	#2		
C6002619	U165	U168	1/0		
C6002620	U165	U-L	2/0		
C6002621	U249	U-L	4/0		



Factory-crimped, above



Unshrouded threaded aluminum ferrules

1 unit each,		Cable			
not installed	Burndy Die No.	Size,			
Catalog No.	or equivalent	AWG			
C6002602	U165	#2			
C6002603	U165	1/0			
C6002604	U165	2/0			
C6002605	U249	4/0			





- Visual inspection of cable condition through clear heat-shrink tube allows inspection for breakage or corrosion that otherwise requires continuity test
- Factory-assembled units expose 1/2" of cable strands at junction point

Shrink tubing for threaded ferrules Features & Applications

- Clear heat-shrink tubes limit corrosion
- Excludes moisture
- Stress-relief for cable jacket and ferrule-to-stranding connection

Part No.	Lengths
P6001593P	5"
P6001982P	7"
P6002069P	9"

[†]Anderson die-less VERSA-CRIMP[®] compression tools require no dies and are capable of making these crimped connections. If using another crimp tool brand, contact that manufacturer for Burndy die equivalents.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3020 March 2013

Conversion Terminals



Features & Applications

- Threaded-terminal adapters for pressure-type grounding-clamp terminals
- Simply retrofit bolt-on adapters to convert clamps with pressure-type terminals to accept 5/8-11 UNC threaded ferrules

Catalog Number	Clamp Applications
C6001584	
"eyebolt" style,	C Type, Snap-On Flat-Face
includes shakeproof washer	•
and nut	
C6001700	
includes steel retainer	All-Angle Clamps
straps for cable	- · · · · ·

Storage Bag for Temporary Grounding Clamps-and-Cable Sets



Features & Applications

- Easy-to-see, bright-yellow protective bag
- Made of double vinyl-laminated open-weave nylon cloth
- Lightweight and durable with nylon stitching throughout
- Full-separating closure constructed with heavy-duty snaps
- Heavy webbing handles
- 18" L x 12" W x 15" D

Catalog No.	Description	Weight
T6000865	Grounding Storage Bag	3 lb.



Support Studs

Features & Applications

- Can be installed on most Ground Clamps
- Replaces restraining strap immediately below terminal
- Serves as a mechanical parking stand for a second clamp
- Helps prevent "parked" clamp from making contact with conductor or ground
- Particularly beneficial in three-phase grounding applications

Catalog No.	Description	Size of Stud	Weight
G3626	Stud for Rear Mount	⁷ / ₁₆ " x 2 ¹ / ₂ "	½ lb./.2 kg.
G3627	Stud for Side Mount	⁷ ∕₁6" x 3"	¾ lb./.3 kg.



Dielectric Compound No. 7

Dielectric Compound No. 7, a silicone base material, is made for use with load break disconnects and other electrical connecting and terminating devices.

Cat. No. C4170287...... 2 oz. Tube

HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

March 2013 Page 3021



Cable Splice

for cables with plain-plug ferrules

Features & Applications

- Use for splicing grounding cable when extensions are required
- Thumb screw makes attachment easy

Splice fits #2 through 4/0 grounding cable with plain ferrules

Catalog No. Description Weig	
Catalog No. Description Weig	ht
T6000252 Grounding Cable Splice 1½ lb./0.	7 kg.



Terminal Blocks, 4-Way

for cables with plain-plug ferrules and threaded ferrules

Features & Applications

- Attach ground leads from grounding clamps to a common ground
- Accommodates 4/0 grounding cables

Catalog No.	Description	Weight
G47541	4-Way Terminal Blocks for Plain Plug Ferrules	2 lb./0.9 kg.
T6001964	4-Way Terminal Blocks for Threaded Ferrules	1 lb./0.45 kg.



T6001964 for four 5/8-11 UNC threaded ferrules

Cluster Support, 1-terminal type

Features & Applications

- Hangs grounding sets on the pole to facilitate lifting clamps—one at a time to the conductors
- Accepts plain ferrules on #2 to 4/0 grounding cable
- Copper bar length is 11"

Catalog No.	Description	Weight
C6000152	Ground Cluster Support	9½ lb./4.3 kg.







T6001549



Cluster Bars

for wood, steel and concrete poles and tower angles

Features & Applications

- Compact 5" aluminum-alloy bar (5/8" dia.) accepts C-type or duckbill clamps
- For phase-to-phase grounding technique
- Adjustable wheel binder and 36" chain for pole applications
- Hook style for attachment to tower angles

Catalog No.	Description	Weight
T6001549	Pole-Mount Grounding Cluster Bar	7½ lb./4.09 kg.
T6001737	Tower-Mount Grounding Cluster Bar	9 lb./4.09 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3022 March 2013



Storage Reel for Grounding Cable



Cable Size Reel Capacit	
#2	225 ft.
1/0	185 ft.
2/0	145 ft.
4/0	100 ft.

Catalog No.	Description	Weight
C4176086	Portable Cable Reel	18 lb./8 kg.

Features & Applications

- Hole in outer flange for cable to feed through
- Rewind handle has galvanized-pipe extension for temporarily parking clamps
- Portable reel quickly pays-out/takes-up,
- Helps keep ground sets clean and neat, ready for use
- Handles are comfortable, turned aluminum
- Lightweight unit can be carried to remote sites
- Tubular-steel frame can be U-bolted to deck of truck
- Galvanized drum has ribbed flanges to resist flexing and beaded rims to eliminate sharp edges
- Reel is for storage only
- Cable and clamps should be removed completely from reel before use
- Failure to do so could result in a dangerous voltage drop and violent mechanical reactions
- A label on the unit gives this warning

Temporary Ground Rod



- Screw Ground Rod provides a temporary ground
- For when a system ground is not available
- When installed, 6' spiraled ground rod develops less resistance than straight ground rods
- Actual effectiveness depends upon soil properties
- Reusable Ground Rod is copper-clad steel
- Helix (spiral) and handle are bronze
- For truck-grounding applications, see kit below

Catalog No.	Description	Weight
G3370	Screw Ground Rod	7¾ lb./3.5 kg.





Features & Applications

- Provides means to drain off capacitance or static charges
- For winch trucks and aerial devices
- Flat -face clamp is for secure attachment to the truck bed at an area cleaned for electrical contact
- C-type clamp is for secure attachment to ground rod
- This grounding method should not be considered adequate protection to personnel against conductor contact
- For truck-grounding with ball/socket-clamp, see page 3103

Truck Grounding Set Catalog No. T6001971 (total weight 35 lb./15.75 kg.) consists of:

Component	Qty.	Description
Screw Ground Rod	1	Cat. No. G3370, see above
Flat Face Ground Clamp	1	Cat. No. T6001798, see page 3010
C-Type Ground Clamp	1	Cat. No. C6001754, see page 3004
#2 Copper Grounding Cable	50 ft.	Cat. No. S6116, see page 3018
*Shrouded Alum. Ferrules	2	Cat. No. C6002618, see page 3019
Storage Reel	1	Cat. No. C4176086, see above

^{*}Threaded ferrules are factory-installed on ends of cable.



Page 3023



Truck Safety Barricade



Catalog No.	Description	Weight	
T3060006	Truck Safety Barricade	21 lb./9.5 kg.	

Grounding Simulator Kit

Features & Applications

- Demonstrates principles for temporary grounding practices
- Portable instructional aid provides working model of three-phase system circuit
- Powered by a step-down transformer
- Plugs into a 110-volt 60-cycle household source
- Special light/buzzer unit simulates lineworker in maintenance on de-energized line
- Insulated wires with alligator clip at each end serve as grounding cable and clamp sets (10 included)
- Miniature grounding cluster bar is included for pole mounting



Durable & Accurate

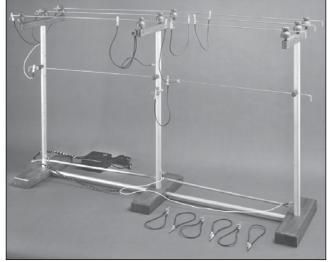
- Durable, aluminum pipe poles
- Wood crossarms
- Electrically correct, aluminum poles effect the conductivity which should be assumed for actual poles
- Leads from the poles and neutral connect to ground side on source (transformer)





Features & Applications

- Keeps workers and onlookers away from truck when it is being used in proximity to energized conductors
- Six rods, made of bright orange Epoxirod®, provide a 6-foot air space around the entire perimeter of the truck
- Safety barricade also includes six pieces of 3-inch long steel tubing (to be welded to truck by the customer)
- Tubing holds barricade rods, 150 feet of yellow rope and a canvas storage bag
- Entire kit requires less storage than traffic cones and can be quickly installed and removed at each job site



Modular design quickly sets up and takes down for storage in rugged transport case.

Operation

- To quickly test any proposed configuration, depress transformer foot switch to energize a fault on the system
- If the light glows and the buzzer sounds on the "worker," this indicates the grounding system in place fails to provide protection
- If no such signals occur, the scheme of grounding connections does create a protective zone of equalized potential at the worksite

Ordering Information

Catalog No. Description		Weight	
C6001950	Grounding Simulator Kit	23 lb. / 10.5 kg.	



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3024 March 2013

Standard (Orange) Equi-MAT® **Personal Protective Ground Grid**

Features & Applications

- Complies with OSHA 1910.269 for equipotential requirements near vehicles, underground gear, overhead switches and in substations
- Meets ASTM F2715 Standard

Portable, lightweight, high performance

- · An easy way to help establish an equipotential zone for a lineworker
- For standing on during various energized and de-energized work practices
- Properly applied, it accomplishes compliance with Occupational Safety and Health Administration (OSHA) 1910.269:
 - o "Equipotential Zone. Temporary protective grounds SHALL be placed at such locations and arranged in such a manner as to prevent each employee from being exposed to hazardous differences in electrical
- Can be taken anywhere needed, is simple to use, maintain and store
- Consists of a high-ampacity tinned-copper-braid cable sewn in a grid pattern onto a vinyl/polyester fabric
- Cable terminals permit connecting mat's grid in series with an electrical ground and subject system component or vehicle
- Simply rinsing with water comprises all the care the mat requires
- Mat may be folded and stored in a tool bag to help keep it clean and protected
- Complete instructions are included with each unit

. . . continued on the next page . . .

Basic Equi-Mat® Personal Protective Ground Grid Each Basic Unit includes a Long Ball Stud and illustrated instructions.

Catalog No.	Size	Weight	
Single 1/4" Perimeter Braid			
PSC6003080* (Bucket)	24" x 24"	5 lb. / 2.3 kg.	
C6002850	58" x 58"	8 lb. / 3.6 kg.	
C6002851	58" x 120"	13 lb. / 5.9 kg.	
C6002852	120" x 120"	20 lb. / 9.1 kg.	

^{*}For use in bottom of personnel bucket of lift truck.

Pre-Packaged Kits

Each Pre-Packaged Kit includes Ground Grid (size below with Long Ball Stud and illustrated instructions) plus Ground Set T6002841 and Storage Bag C4170147.

Kit	Equi-Mat® Personal Protective Ground Grid	Weight
Catalog No.	Size	per Kit
C6002989	58" x 58"	19 lb. / 8.6 kg.
C6002990	58" x 120"	27 lb. / 12.2 kg.
C6002991	120" x 120"	30 lb. / 13.6 kg.



Accessory Items

Long Ball Stud T6002364 included with each Basic Equi-Mat® Personal Protective Ground Grid (Catalog page 3013)



March 2013

Ground Set T6002841 included with Kits only Consists of 6 ft. long #2 cable with ferrules applied, Ball Socket clamp (C6002100) and C-Type clamp (T6000465)



Storage Bag C4170147 included with Kits only Catalog pages 2512-13











CHANCE Standard (Orange) Equi-Mat®

Personal Protective Ground Grid

Features & Applications

- Complies with OSHA 1910.269
- For equipotential requirements near vehicles, underground gear, overhead switches and in substations

Applications

Padmounted Transformers and Switches

- Complies with OSHA 1910.269
- Protects workers operating and maintaining padmounted transformers and switchgear
- Proper use of EQUI-MAT Personal Protective Ground Grid in these applications creates an equipotential zone



• This is the same as a cluster bar (chain binder) does in overhead grounding practices

Bottom of Personnel Bucket on Lift Truck

Use only 24" x 24" Catalog No. PSC6003080

Mechanical Equipment (Vehicles, etc.) Grounding

- Provides compliance with OSHA 1910.269
- Protects workers around mechanical equipment which could become energized, such as utility vehicles and portable generators
- For proper application, EQUI-MAT Personal Protective Ground Grids are attached to the vehicle (for example) at locations where workers could contact the vehicle
- This extends the equipotential area around the vehicle

Simple to join multiples for larger areas

- Cascading (or joining together) two or more mats is
- Connecting tab and hardware furnished with each mat



(Left) To join mats, conductive grids simply connect at tabs with bolt, washer and nut included with each mat. Tabs have shrink tube for stress relief. (Right) Ball stud can join mats and connect to ground set clamps.

Long ball stud accepts various grounding clamps as shown below and at right: Ball/Socket, C Type and Duckbill.







Overhead Distribution and Transmission Switches

- EQUI-MAT Personal Protective Ground Grid can help eliminate step and touch potential
- Connect it to the handle of an overhead switch and stand on it when opening or closing the switch

Line Apparatus Work

 Similar uses for installing, maintaining or operating regulators, reclosers, capacitor banks

Suspect Substation Grids

- If station ground mat integrity is questionable, apply the **EQUI-MAT Personal Protective Ground Grid**
- Connected in series, the conductive grids become one
- For larger area, place lug connector tabs of two adjacent mats on the supplied bolt or threaded shank of a ball stud and secure with supplied washer and nut







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3026 March 2013

Slip-Resistant (Black) EQUI-MAT® Personal Protective Ground Grid



Features & Applications

- Complies with OSHA 1910.269 for equipotential requirements near vehicles, underground gear, overhead switches
 and in substations
- Meets ASTM F2715 Standard

Portable, lightweight, high performance

- An easy way to help establish an equipotential zone for a lineworker
- For standing on during various energized and deenergized work practices
- Properly applied, it accomplishes compliance with Occupational Safety and Health Administration (OSHA) 1910.269:
 - "Equipotential Zone. Temporary protective grounds SHALL be placed at such locations and arranged in such a manner as to prevent each employee from being exposed to hazardous differences in electrical potential."
- Can be taken anywhere needed, is simple to use, maintain and store
- Consists of a high-ampacity tinned-copper-braid cable sewn in a grid pattern onto a vinyl/polyester fabric
- Cable terminals permit connecting mat's grid in series with an electrical ground and subject system component or vehicle
- Simply rinsing with water comprises all the care the mat requires
- Mat may be folded and stored in a tool bag to help keep it clean and protected
- Complete instructions are included with each unit



Slip-Resistant material

- For rain, snow and ice conditions
 - Napped surface offers superior footing
- For dry conditions, consider the Standard (Orange) EQUI-MAT® Personal Protective Ground Grid, available in the same sizes and kits

. . . continued on the next page . . .

Slip-Resistant Equi-Mat® Personal Protective Ground Grid Each Unit includes Ground Grid, Long Ball Stud and illustrated instructions

Catalog No.	Size	Weight	
Single 1/4" Perimeter Braid			
PSC6003345	58" x 58"	8 lb. / 3.6 kg.	
PSC6003346	58" x 120"	13 lb. / 5.9 kg.	
PSC6003347	120" x 120"	20 lb. / 9.1 kg.	



Kit Catalog No.	Equi-Mat® Personal Protective Ground Grid Size	Weight per Kit
PSC6003348	58" x 58"	19 lb. / 8.6 kg.
PSC6003349	58" x 120"	27 lb. / 12.2 kg.
PSC6003350	120" x 120"	30 lb. / 13.6 kg.



Accessories

Long Ball Stud T6002364 included with each Basic Equi-Mat® Personal Protective Ground Grid (Catalog page 3013)



March 2013

Ground Set T6002841 included with Kits only Consists of 6 ft. long #2 cable with ferrules applied, Ball Socket clamp (C6002100) and C-Type clamp (T6000465) Storage Bag C4170147 included with Kits only Catalog pages 2512-13

HUBBELL



Slip-Resistant (Black) EQUI-MAT® Personal Protective Ground Grid

Features & Applications

 Complies with OSHA 1910.269 for equipotential requirements near vehicles, underground gear, overhead switches and in substations

Padmounted Transformers and Switches

- Complies with OSHA 1910.269
- Protects workers operating and maintaining padmounted transformers and switchgear
- Proper use of EQUI-MAT Personal Protective Ground Grid in these applications creates an equipotential zone
- This is the same as a cluster bar (chain binder) does in overhead grounding practices



Mechanical Equipment (Vehicles, etc.) Grounding

- Provides compliance with OSHA 1910.269
- Protects workers around mechanical equipment which could become energized, such as utility vehicles and portable generators
- For proper application, EQUI-MAT Personal Protective Ground Grids are attached to the vehicle (for example) at locations where workers could contact the vehicle
- This extends the equipotential area around the vehicle

Simple to join multiples for larger areas

- Cascading (or joining together) two or more mats is
- Connecting tab and hardware furnished with each mat



(Left) To join mats, conductive grids simply connect at tabs with bolt, washer and nut included with each mat. Tabs have shrink tube for stress relief. (Right) Ball stud can join mats and connect to ground set clamps.

Long ball stud accepts various grounding clamps as shown below and at right: Ball/Socket, C Type and Duckbill.







Overhead Distribution and Transmission Switches

- EQUI-MAT Personal Protective Ground Grid can help eliminate step and touch potential
- Connect it to the handle of an overhead switch and stand on it when opening or closing the switch

Line Apparatus Work

 Similar uses for installing, maintaining or operating regulators, reclosers, capacitor banks

Suspect Substation Grids

- If station ground mat integrity is questionable, apply the EQUI-MAT Personal Protective Ground Grid
- Connected in series, the conductive grids become one
- For larger area, place lug connector tabs of two adjacent mats on the supplied bolt or threaded shank of a ball stud and secure with supplied washer and nut











Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 3028 March 2013



Rotating Ground Adapters for Reels

Tested and Meets ASTM F 855 Standard

Applications

- Provide system protection while conductor is pulled from reels for stringing operations By design, the system adds conductor grounding but does not replace other grounding practices
- This includes items such as Equi-Mat[®] personal protective ground grids (Chance Catalog Section 3000)
- System serves as intended path to ground for static discharge and accidental energizing from downed lines, equipment contact, adjacent conductors and lightning

Installation

March 2013

- Rotating Ground Adapter slides on reel mandrel and three locking bolts secure it
- Outer collar contact connects to the end of the conductor from inside the reel
- Adapter's inner collar contact connects to a permanent or screw-in ground rod (not included, see Chance Catalog Section 3000)







Rotating Ground Adapters for Reels ———— Ordering Information

	ASTM Grade:	Pipe Dia.	Connector	Connector	
Catalog No.	Fault Rating	Maximum	Туре	Range	Weight
Rotating Grounding Adapter	S			•	
GR253X	ASTM Grade 1:	3-3/16"	Bronze Vise Type	3 Sol. to 4/0 Str.	9.8 lb. (4.4 kg.)
	14kA @ 15 cycles				
	10kA @30 cycles				
GR43BS2	ASTM Grade 5:	2-11/16"	Two 1"-diameter	See Ball Stud	40.75.11
	43kA @15 cycles		Ball Studs	Clamp in Chance	12.75 lb.
	30kA @30 cycles			Cat. Section 3000	(5.8 kg.)
Single Reel Grounding Set			Assembled Bill o	of Materials	
PST6003438	Grade 3:	2-11/16"	4 ea. C6001754 C-type	ground clamps,	53.75 lb.
	27kA @15 cycles		2 ea. T6002320 ball stu	d ground clamps,	(24.4 kg.)
	20kA @30 cycles		1 ea. GR43BS2 rotating	ground adapter,	
	(Ratings for this set are		6 ea. Ferrules (aluminu	m),	
	limited to those for the		6 ea. Shrink tubes,		
			63 ft. S6118 yellow neo	prene 2/0 cable	
	2/0 grounding cable.)		(1 @ 50 ft., 1 @ 10) ft., 1 @ 3 ft.)	

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 3029

CHANCE

Three-Phase Boom Lifts

- Jib-mounted Winch-driven
- Constant-load monitor1,200-lb. rating*

Features & Applications

- Hot-line tool set enables a material-handler boom truck to lift single- or three-phase system conductors
- Operator remains in bucket, positioned to perform such routine jobs as replacing insulators, crossarms or
- Each complete unit includes:
 - o 10' Vertical orange Epoxiglas® mast (4" x 4")
 - o 10' Horizontal gray Epoxirod® support arm (2-1/2" dia.) with four Heavy-Duty Roller-type Wireholders for conventional crossarm construction
 - o 6' Horizontal gray Epoxirod support arm (2-1/2" dia.) with one additional Wireholder for center mast for armless construction
 - o Storage bags for all components above
- Wireholders latch easily from bucket with hookstick
- 12" Epoxirod link insulates each latch-release lanyard





Wireholders latch easily from bucket with hookstick. 12" Epoxirod link insulates each latch-release lanyard.

Jib Sleeve, available separate and in custom sizes



Winch line connects to mast base to raise conductors and provide working clearances for operator.





- For crossarm construction: 10' arm attaches at mast top
- Fourth wireholder furnished for crossarm-mounted neutral, not shown
- For armless construction: 6' arm attaches at proper level on series of mounting holes on mast

Maximum Ratings, all units

- Vertical load per wireholder: 300 lb.
- *Balanced vertical load: 1,200 lb., includes tool itself



Center wireholder, used alone, permits singlephase lifts.

> See the next page for Ordering Information.



at various angles. Builtin scale continuously monitors load uplift. Nylon rollers ensure smooth mast travel.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4152 November 2013



Three-Phase Boom Lifts

Complete Units

Features & Applications

ALTEC®

E4001678

E4002262

November 2013

Telelect > [

О

- Each complete unit includes a jib sleeve in size listed in addition to:
 - o 10' Vertical orange Epoxiglas® mast (4" x 4")
 - o 10' Horizontal gray Epoxirod® support arm (2-1/2" dia.) with four Heavy-Duty Roller-type Wireholders for conventional crossarm construction
 - o 6' Horizontal gray Epoxirod support arm (2-1/2" dia.) with one additional Wireholder for center mast for armless construction
 - o Storage bags for all components above

Weight	each: 225	i lb. /	102	kq
--------	-----------	---------	-----	----

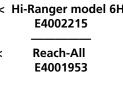
Catalog No.	Truck Application
C4001612	Asplundh: 3³/₄"-dia. jib
C4001613	Telelect: 4¹/₄"-dia. jib
C4001664	ALTEC®: 4"-dia. jib
C4001677	Hi-Ranger model 5H*: 2 ⁷ / ₈ "-dia. jib
C4001709	Teco or Holan: 4" x 4"-sq. jib
C4001710	Pitman: 4" x 5"-sq. jib
C4001711	R.O. Products: 5 ¹ / ₄ "-dia. jib
C4002719	No Jib Sleeves included. See below for correct size.

^{*}For Hi-Ranger model 6H with top-mounted winch, order E4002215 Jib Sleeve, listed below.

lih Sleeves ONIY -

		כ מונ	ieeves C	VINLT ————	
	477-		Jib Ac	lapters – Material Ha	andlers
~			Catalog No.	Jib Application	Weight
0	9 P		E4001651	3 ³ / ₄ "-dia., as Asplundh	15 lb./6.75 kg.
Д			E4001652	4¹/₄"-dia., as Telelect	15 lb./6.75 kg.
			E4001678	4"-dia., as ALTEC®	20 lb./9.09 kg.
0	0		E4001679	2 ⁷ / ₈ "-dia., as Hi-Ranger model 5H	15 lb./6.75 kg.
			E4001689	4" x 4"-sq., as Teco or Holan	20 lb./9.09 kg.
Asplundh E4001651	Lift-All E4002293		E4001714	4" x 5"-sq. as Pitman	20 lb./9.09 kg.
			E4001715	5 ¹ / ₄ "-dia., as R.O. Products	20 lb./9.09 kg.
Telelect	Teco/Holan		E4001953	4" x 4" Reach All	20 lb./9.09 kg.
E4001652	E4001689		E4002215	4" x 4"-sq., as Hi-Ranger model 6H	22 lb./10.8 kg.
Hi-Ranger	Pitman			with top-mounted winch	
model 5H	E4001714		E4002262	4 ³ / ₄ "-dia., as Telelect on over-	15 lb./6.75 kg.
E4001679				center model trucks	
RO Products			E4002293	3 ¹ / ₂ "-sq., as Lift-All	22 lb./10.8 kg.
E4001715		7 [T4002647	4" x 4" ALTEC®	44 lb./21.6 kg.
	9 P	9 P	PST4003111	4" x 4" ALTEC® Adapter fits AM55	20 lb./9.09 kg
			Slotted operationsSleeve E40	Sizes, Consult Factory ening in longest two models at left a operation by winch mounted on top 01678 works on ALTEC® rigs with win	of boom tip
			on top or k	oottom of boom tip	





Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Page 4153



Boom Mounted Auxiliary Arm Square Mast

Features & Applications

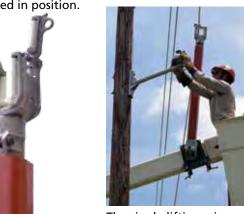
- 4" x 4" mast is fitted with a quick mounting assembly
- Assembly attaches to booms from 5-7/8" x 7-3/8" to 12" x 12", both square and rectangular
- Working end of mast will accept several accessories such as:
 - o An Epoxiglas® Auxiliary Arm
 - o Single lifting wire holder
 - o Sheave for gin work
- Auxiliary Arm may be swiveled to and locked into any desired position
- Single lifting wire holder may also be swiveled to maintain conductor alignment
- Gin sheave will not swivel and is pinned stationary to keep the plane of the sheave in the vertical position at all times
- For use above 15kV, add M48057 insulator to each wireholder; see Page 4155



For three phase applications. The auxiliary arm may be rotated to align the wire holders with the conductors, then locked in position.



Easy mounting with our two intermeshing castings with single pivot stud.



The single lifting wire holder may be rotated for alignment with the conductor.

Max. Side load per Wireholder: 100 lb. Max. Vertical Load per Wireholder C4000268: With Braces Arm Length

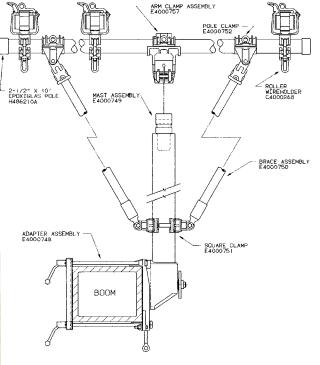
200 lb. 10' Mechanical Rating

1000 lb.

C4000747

Wireholder

Balanced Vertical Load Unbalanced Vertical Load 800 lb.





OPTIONAL ADAPTER for Round Booms, see pages 4163 & 4164



Sheave The sheave will take a 3/4inch diameter rope. The maximum load for the gin is 800 lb.

Catalog		
No.	Description	Weight
C4000744		130 lb./58.5 kg.
	for Booms 5 ⁷ / ₈ " x 7 ³ / ₈ " to 12" x 12"	
C4000745	Mast Assembly without Arm	90 lb./41 kg.
C4000746	Rope Sheave Assembly	8 lb./ 3.6 kg.
C4000747	Single Wire Holder	13 lb./ 5.9 kg.
C4001469	9"-dia. Boom Adapter (Altec®)	40 lb./18 kg.
C4001877	8"-dia. Boom Adapter (Altec®)	40 lb./18 kg.

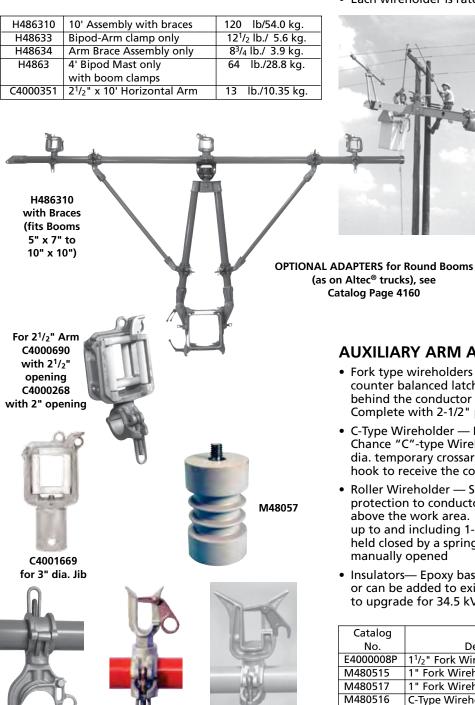


Boom Auxiliary Arm



Features & Applications

- Consists of a boom mast and arm of Epoxiglas® construction
- For mounting on insulated boom
- For use on light construction when handling multiple
- Two-legged mast can be mounted on square or rectangular shaped booms designed to handle 2,000 lbs. or more
- If boom units of lesser ratings are employed, the lifting and maneuvering application of this unit must be reduced accordingly
- Mechanical rating for a balanced vertical load is 1,000 pounds maximum or a limit of the boom arm in the position used, whichever is the least
- 10' arm, recommended for brace use only, is rated at 200 lbs. per conductor holder
- Chance C4000268 roller wireholders are used on the Boom Auxiliary Arm and Mast
- Each wireholder is rated for 100 lb. max. side load



M480517

M480516

November 2013



AUXILIARY ARM ATTACHMENTS

Catalog Page 4160

- Fork type wireholders With 1" or 1-1/2" opening, counter balanced latch, which closes automatically behind the conductor to hold it in the wireholder. Complete with 2-1/2" pole clamp
- C-Type Wireholder For rubber glove work, the Chance "C"-type Wireholder is suspended for a 2-1/2" dia. temporary crossarm above the conductor as a hook to receive the conductor after it is untied
- Roller Wireholder Seven Delrin plastic rollers offer protection to conductors while raising the conductor above the work area. Accommodates conductors up to and including 1-1/2 inches in dia. The gate is held closed by a spring-loaded latch which must be manually opened
- Insulators— Epoxy based, available as separate items or can be added to existing auxiliary arm wireholders to upgrade for 34.5 kV use

Catalog		
No.	Description	Weight
E4000008P	1 ¹ / ₂ " Fork Wireholder, no Insulator	2 ¹ / ₂ lb./1.1 kg.
M480515	1" Fork Wireholder, with Insulator	5 ¹ / ₂ lb./2.5 kg.
M480517	1" Fork Wireholder, no Insulator	2 lb./ .9 kg.
M480516	C-Type Wireholder, no Insulator	2 ¹ / ₂ lb/1.1 kg.
C4000690	Roller Wireholder, no Insulator	4 ¹ / ₂ lb/2.0 kg.
C4000268	Roller Wireholder, no Insulator	4 ¹ / ₂ lb/2.0 kg.
M48057	Epoxy Insulator, ⁷ / ₁₆ " threads	1 ¹ / ₄ lb./0.55 kg.

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

E4000008



Page 4155

CHANCE®

Swivel-Base Truck Mount

for 12V, 115V, 230V & Hydraulic 1,000-lb. Series 90 Capstan Hoists

NOTE: For Hitch-Receiver Mount, see Catalog Section 1150 Sets At Angles Needed For A Variety Of Jobs

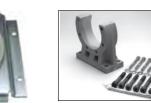
- Turntable design permits proper alignment without repositioning service vehicle
- Heavy-gauge steel base bolts direct to truck body
- Bracket can be pinned at every 15° interval around circular base for:
 - o Stringing
 - o Tensioning
 - o Sagging conductors
 - o Pulling in cable
 - o Hoisting equipment
 - o Setting poles
 - o Pulling vehicles
- To remove hoist and bracket from swivel base, simply remove four bolts
- C-bracket also can be bolted down for fixed-angle

A WARNING

This is not a personnel lifting device. A label on the unit warns against lifting people or loads directly above people.

Utilize truck as portable power source

- Only 12V, 115V, 230V and Hydraulic 1,000-lb.-rated hoists are recommended for truck mounting
- See page 1153 to order



C-Bracket C3080890

Swivel Bracket C3080903

Swivel Bracket only

Swiver bracket only		
Catalog No.	Weight, each	
C3080903	18 lb. (8.1 kg.)	

C-Bracket only — complete with mounting bolts
C3080890 5 lb. (2.25 kg.)

Truck Visual Barrier





For transport, hoist can remain mounted.



Weather Shield for 12-Volt DC hoist only

complete with band clamp

C3080909 1 lb. (0.45 kg.)



Features & Applications

- Alerts workers and onlookers to stay away from truck when it is being used in proximity to energized conductors
- Six rods, made of bright-orange Epoxirod®, provide a 6' air space around the entire perimeter of truck
- Kit also includes:
 - o Six pieces of 3" long steel tubing (to be welded to truck by the customer) to hold the barricade rods
 - o 150 feet of yellow rope
- o A canvas storage bag
- Entire kit requires less storage than traffic cones
- Can be quickly installed and removed at each job site

Catalog No.	Description	Weight
T3060006	Truck Visual Barrier	21 lb./9.5 kg.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4156 November 2013



Truck Grounding Set

Features & Applications

- Drains off capacitance or static charges from winch trucks and aerial devices
- This grounding method should not be considered adequate protection for personnel against conductor contact

Screw Ground Rod

(Catalog No. G3370)

When installed, 6' copper-clad rod develops less resistance than straight ground rods. Helix (spiral section), T-handle and wingnut are bronze for high conductivity

Flat Face Ground Clamp

(Catalog No. T6001798)

For secure attachment to the truck bed at an area cleaned for electrical contact, clamp features bronze T-handle, aluminum body and serrated jaws with range for 1/8" to 1-1/2" angles or flats. Ratings: 400 amps continuous current; 25,000 amps fault current for 15 cycles and 30 cycles

C-Type Ground Clamp

(Catalog No. C6001754)

For connection to vertical shaft of ground rod, clamp features smooth jaws and bronze eyescrew. Ratings: 350 amps continuous current; 28,000 amps fault current for 15 cycles and 20,000 amps fault current for 30 cycles

Grounding Cable and Ferrules

(Catalog No. S6116 & C6002618)

For easy handling, extra-flexible #2 copper cable features fine stranding and tough yellow T-prene rubber compound jacket for all-temperature uses down to -20°F. Cable length is 50 feet. Two shrouded aluminum ferrules come factory-installed on the cable to secure the threaded studs in the clamp terminals

Storage Reel

(Catalog No. C4176086)

To help keep ground set clean and ready for use, reel features tubular-steel frame which can be bolted to deck. Reel is for storage only. Cable and clamps must be removed completely from reel before use. Failure to do so could result in a dangerous voltage drop and violent mechanical reactions. A label on the unit gives this



ORDERING INFORMATION

Catalog No.	Description	Weight
T6001971	Truck Grounding Set	35 lb./15.75 kg.

Swivel Wireholder Jib Extensions for Telelect trucks*

Features & Applications

- Feature a Large Swivel-Type Roller Wireholder with 2-1/2" x 3-3/8" opening mounted on 3" dia. orange Epoxiglas® jib extension
- Tested per ASTM F711 and OSHA

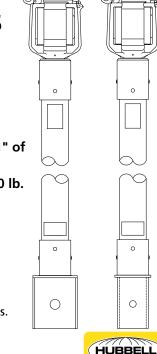
3" Heavy Wall Epoxiglas® Pole with 31" of clear glass (minimum).

Jib Extension Rated Working Load: 300 lb.

ORDERING INFORMATION

Catalog No.	Fits Jib Size	Weight
PST4002818	4" x 4"	28 lb. / 12.72 kg.
PST4002819	3 ³ / ₈ " x 5"	29 lb. / 13.2 kg.
PST4002820	3" Round	27 lb. / 12.3 kg.
PST4002821	4 ¹ / ₂ " Round	28 lb. / 12.72 kg.

^{*}To fit other brands of trucks, contact Hubbell Power Systems with detailed specifications.



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

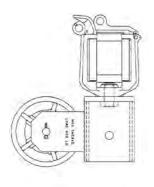
November 2013 Page 4157

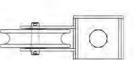


Bi-Pod Three-Phase Arm H486310

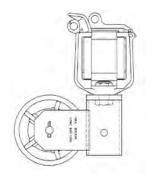
for Square Booms 5" x 7" to 10" x 10"

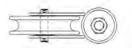
Combination Swivel Wireholder/Sheave for ALTEC® trucks*





for ALTEC® trucks* with 4" x 4" square jib Cat. No. T4002530 (23 lb. / 10.43 kg.)





for ALTEC® trucks* with 3" diameter jib Cat. No. T4002529 (23 lb. / 10.43 kg.)

Features & Applications

- Eliminates changeovers from Wireholder (for picking up a phase conductor) to Rope Sheave (for lifting items)
- Each combination unit attaches directly to jib
- Rated Working Load: 800 lbs.
- Both units feature a Large Swivel-Type Roller Wireholder with 2-1/2" x 3-3/8" opening and a 7"-dia. Sheave to accept up to 3/4"-dia. rope

WARNING: ELECTRIC SHOCK HAZARD. Winch rope can conduct electricity from this device to metal parts on the bucket support. Can cause electrocution death or severe injury. Always remove winch rope from this device when the wireholder is used to support an energized conductor.

Combination Swivel Wireholder/Sheave Jib Extension for ALTEC® trucks*

Small Roller Wireholder C4000268

Center Wireholder and Arm Clamp

C4000520

Features & Applications

C4000351

- Eliminates changeovers from Wireholder (for picking up a phase conductor) to Rope Sheave (for lifting items)
- Includes 3"-dia. heavy-wall jib
- Rated Working Load: 800 lbs.
- Features a Large Swivel-Type Roller Wireholder with 2-1/2" x 3-3/8" opening and a 7"-dia. Sheave to accept up to 3/4"-dia. rope



for ALTEC® trucks* with 4" x 4" square jib Cat. No. PST4003059 39 lb. / 17.7 kg.)

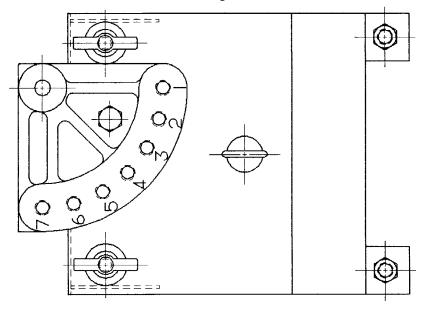
*To fit other brands of trucks, contact Hubbell Power Systems with detailed specifications.

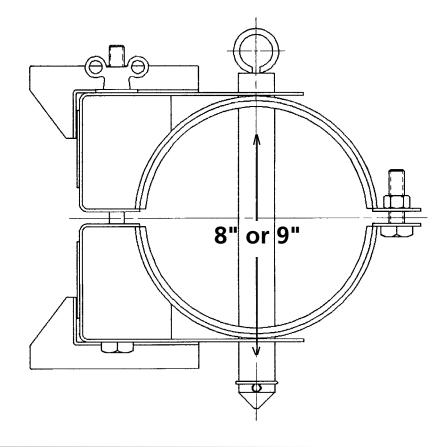




Boom Adapters for ALTEC® trucks C4001467 for 9"-diameter booms C4001878 for 8"-diameter booms

(for use with Bi-Pod assembly in H486310 Three-Phase Arm)







Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013



Boom Adapters for ALTEC® trucks

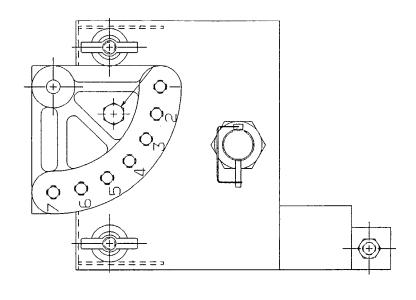
with 8" slide pad on reinforcement collar

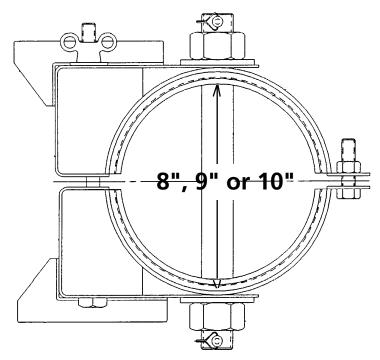
T4002486BI for 10"-diameter booms

C4002393 for 9"-diameter booms

C4002392 for 8"-diameter booms

(for use with Bi-Pod assembly in H486310 Three-Phase Arm)





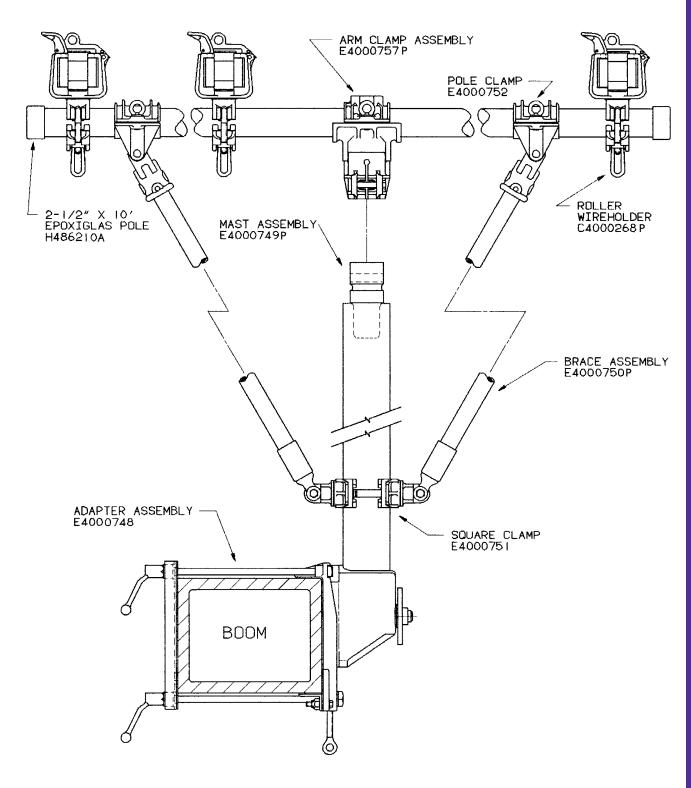
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4160 November 2013



Three-Phase Boom Assembly C4000744

(for Square Booms 5" x 7" to 10" x 10")



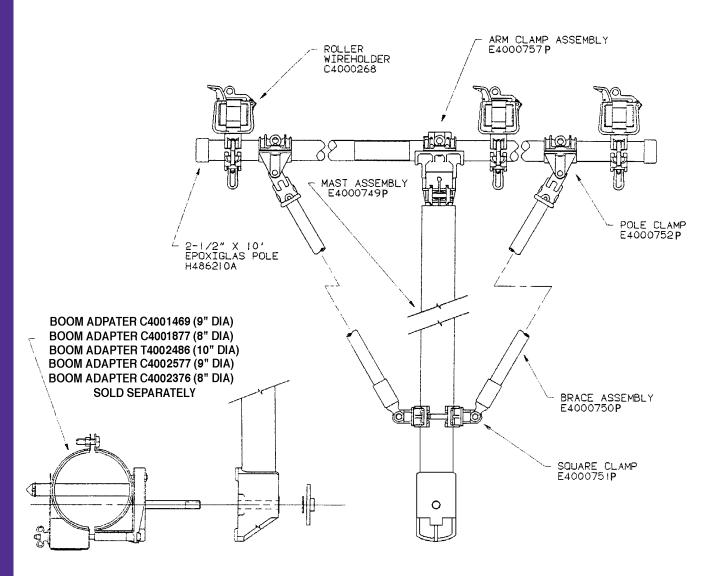


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013



Three-Phase Boom Assemblies for ALTEC® trucks T4001753 w/o Boom Adapter



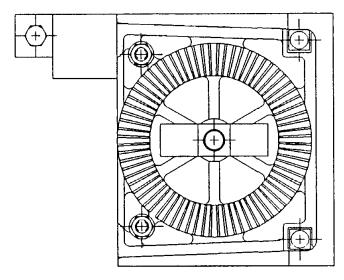
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

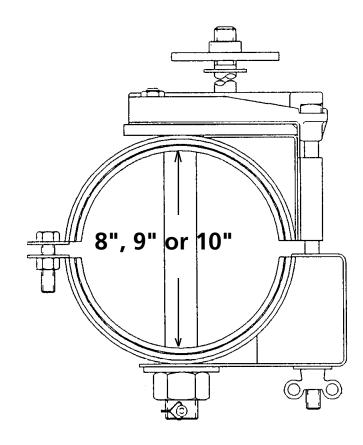
Page 4162 November 2013



Boom Adapters for ALTEC® trucks with 8" slide pad on reinforcement collar T4002486 for 10"-diameter booms C4002377 for 9"-diameter booms C4002376 for 8"-diameter booms

(for 4" x 4" mast in T4001753 Three-Phase Boom Assembly)







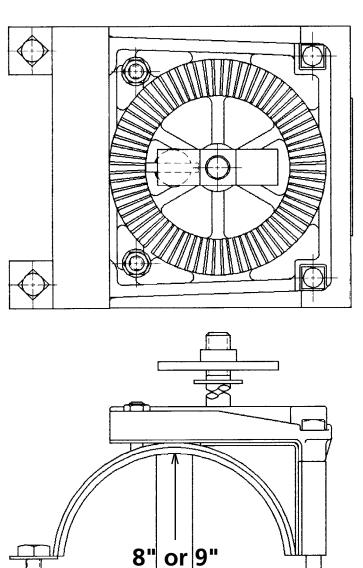
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013



Boom Adapters for ALTEC® trucks C4001469 for 9"-diameter booms

C4001877 for 8"-diameter booms (for 4" x 4" mast in T4001753 Three-Phase Boom Assembly)



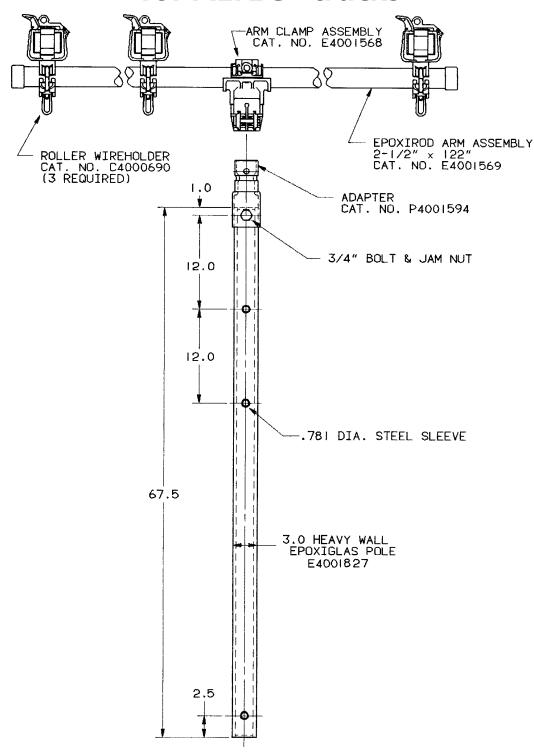


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4164 November 2013



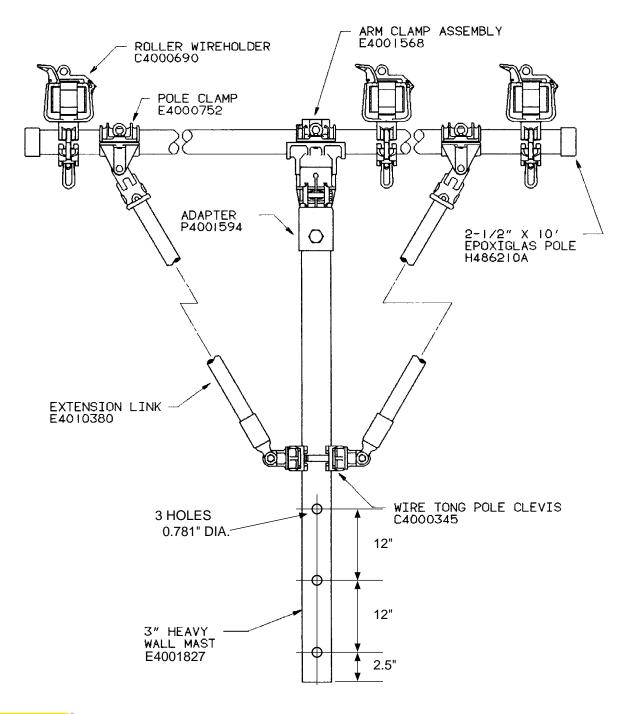
Auxiliary Arm T4001824 with 3"-diameter mast for ALTEC® trucks







Auxiliary Arm T4001854 with 3"-diameter mast & Epoxiglas® pole for ALTEC® trucks

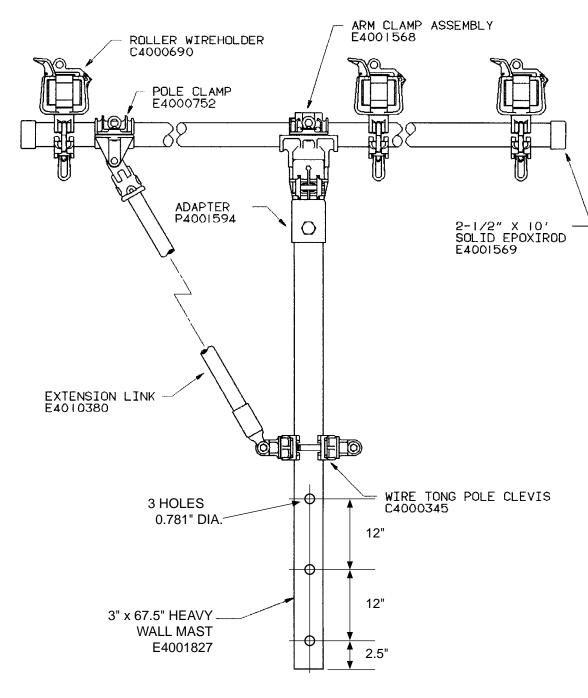


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4166 November 2013



Auxiliary Arm T4001855 with 3"-diameter mast & solid Epoxirod® pole for ALTEC® trucks



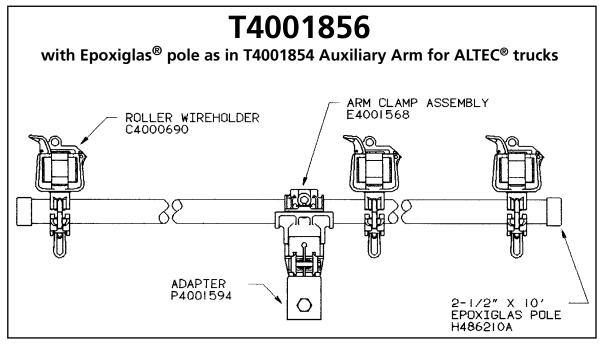


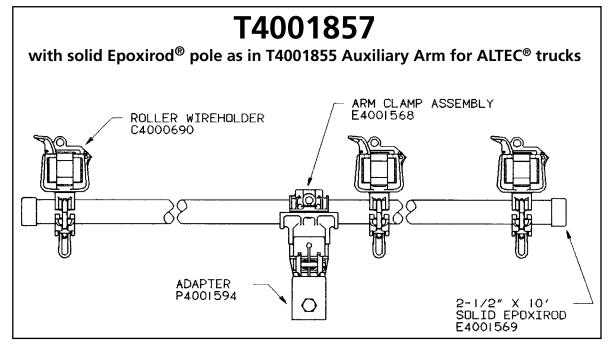
Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 4167



Support Arms with fitting for 3"-diameter mast No Braces Required



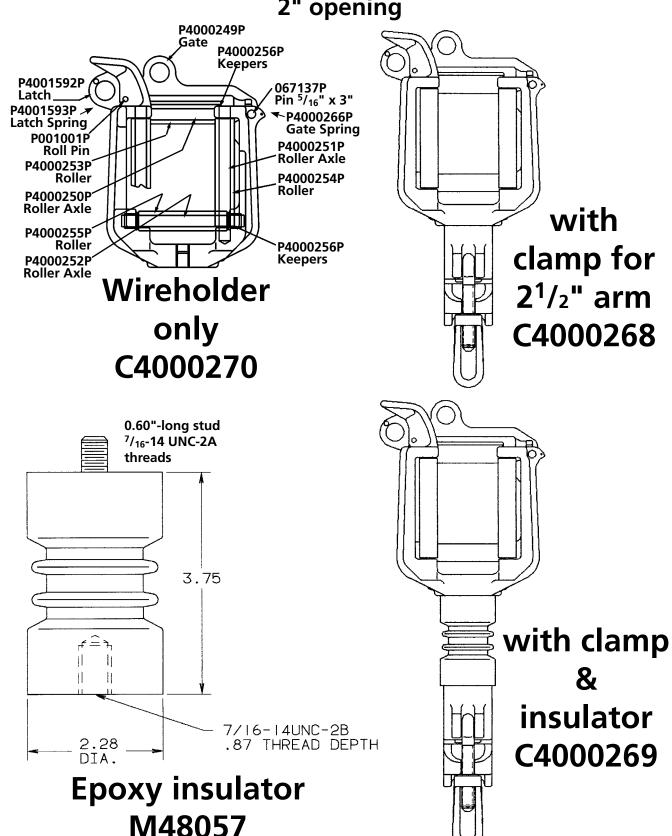


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4168 November 2013



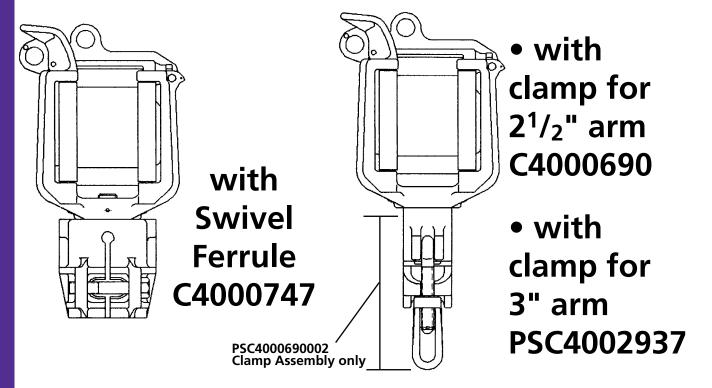
Small Roller Wireholder 2" opening

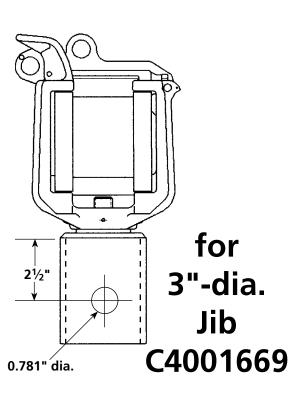


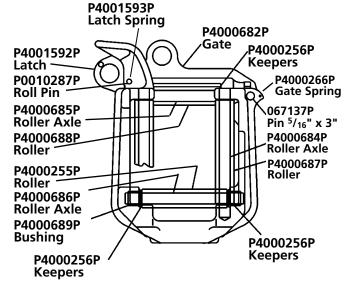
HUBBELL



Large Roller Wireholder 21/2" opening







Wireholder only C4000691

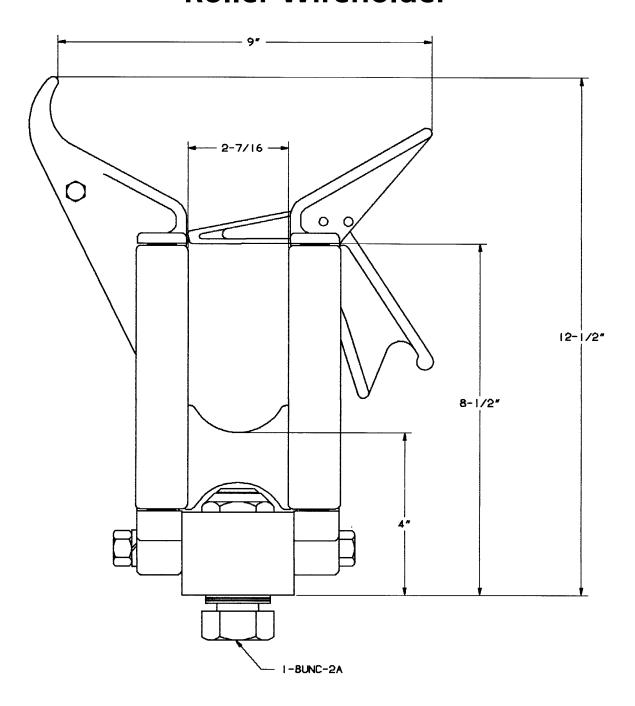


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4170



Heavy-Duty Roller Wireholder

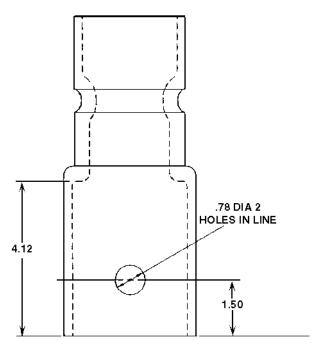


M48061

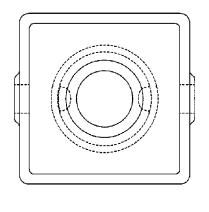


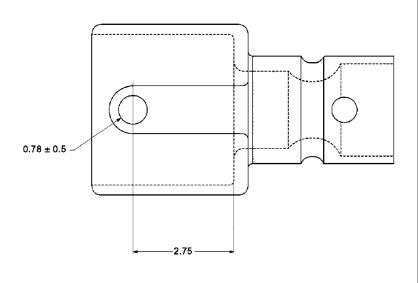


ALTEC® Jib Adapter: 3" Round — P4001594P



ALTEC® Jib Adapter: 4" x 4" Square — P4002536P



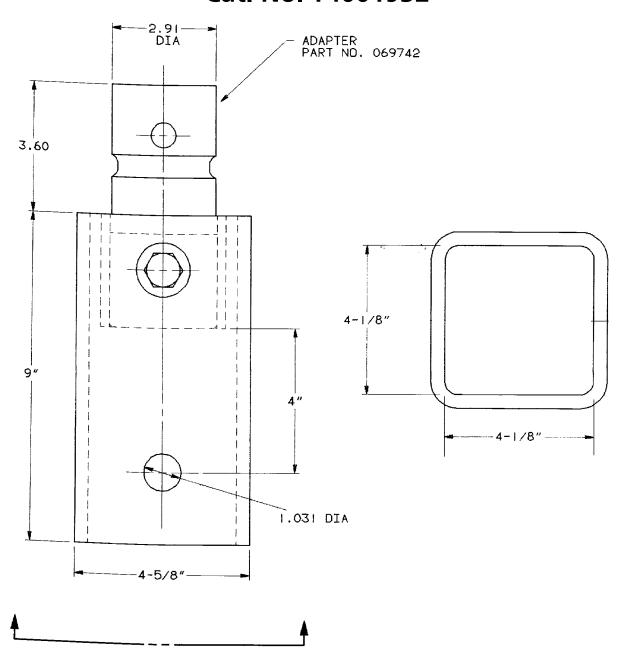


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4172 November 2013



Hi-Ranger Jib Adapter Cat. No. T4001932



FOR USE WITH CHANCE

T4001856	Support Arm
T4001857	Support Arm
C4000746	Rope Sheave Assembly
C4000747	Large Roller Wireholder

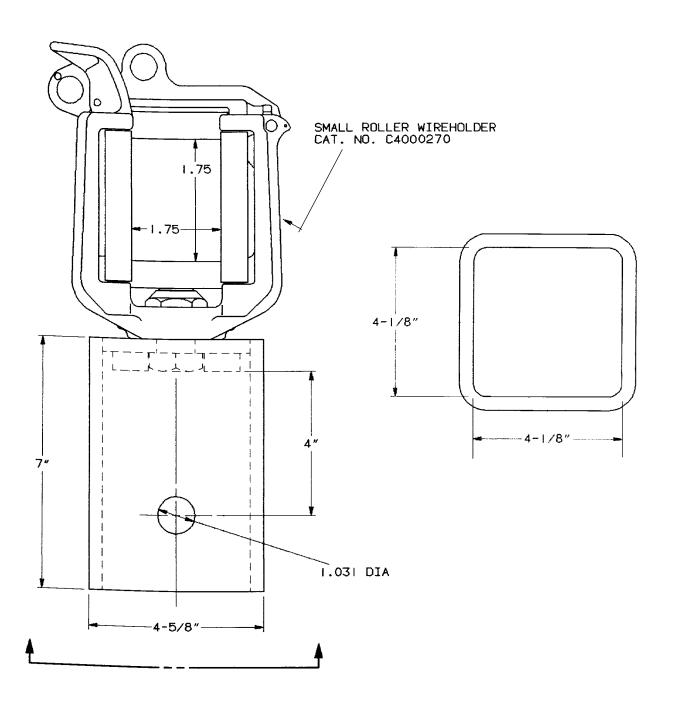
HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 4173



Small Roller Wireholder with Hi-Ranger Adapter Cat. No. T4001931

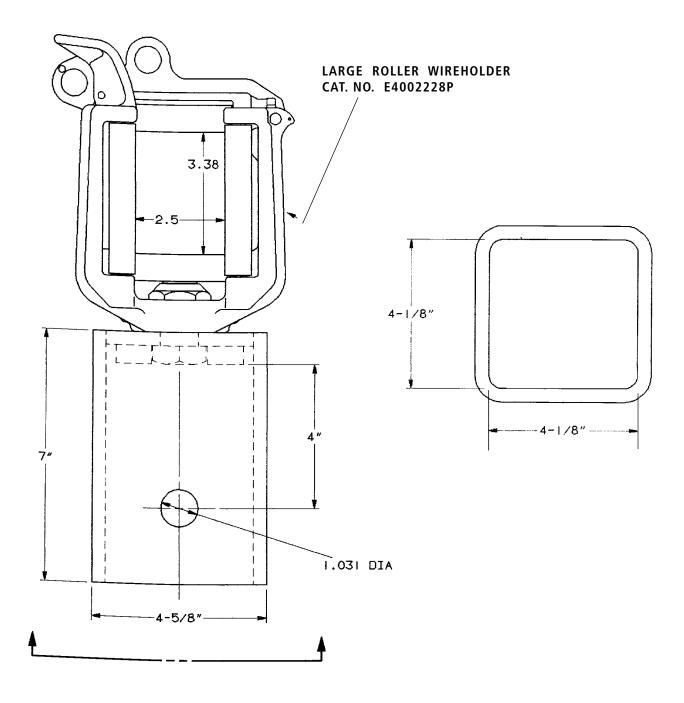


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4174 November 2013



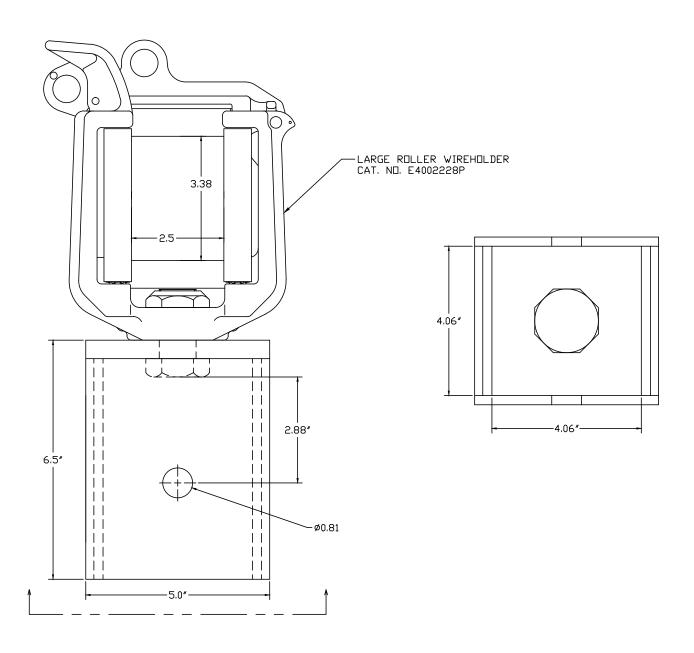
Large Roller Wireholder with Hi-Ranger Adapter Cat. No. T4001929







Wireholder Assembly Cat. No. PST4002856

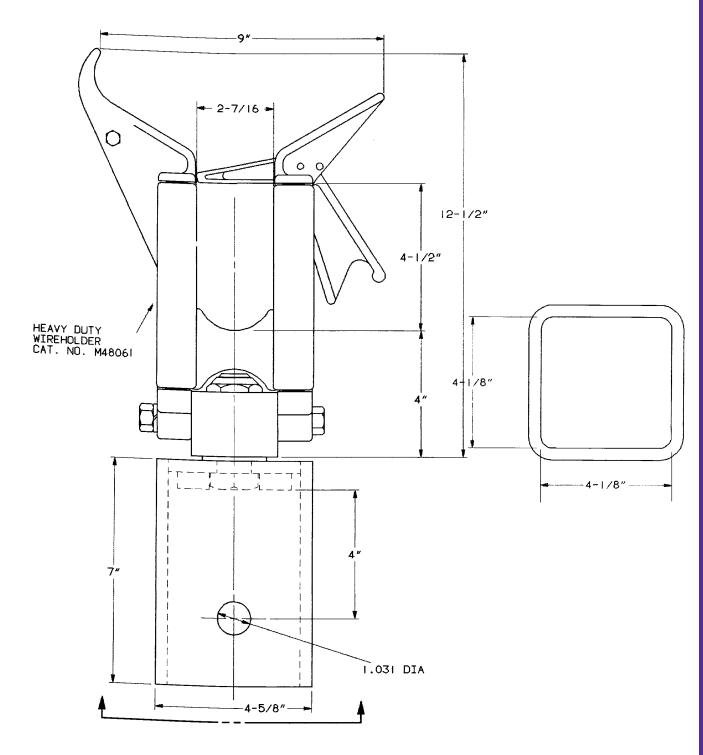


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4176 November 2013



Heavy-Duty Roller Wireholder with Hi-Ranger Adapter Cat. No. T4001930



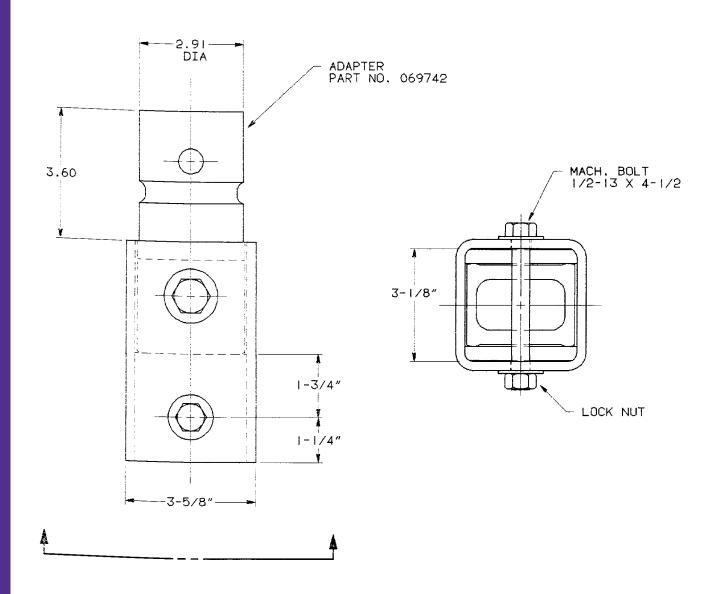


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

November 2013 Page 4177



Holan Jib Adapter Cat. No. T4001927



FOR USE WITH CHANCE

T4001856	Support Arm
T4001857	Support Arm
C4000746	Rope Sheave Assembly
C4000747	Large Roller Wireholder

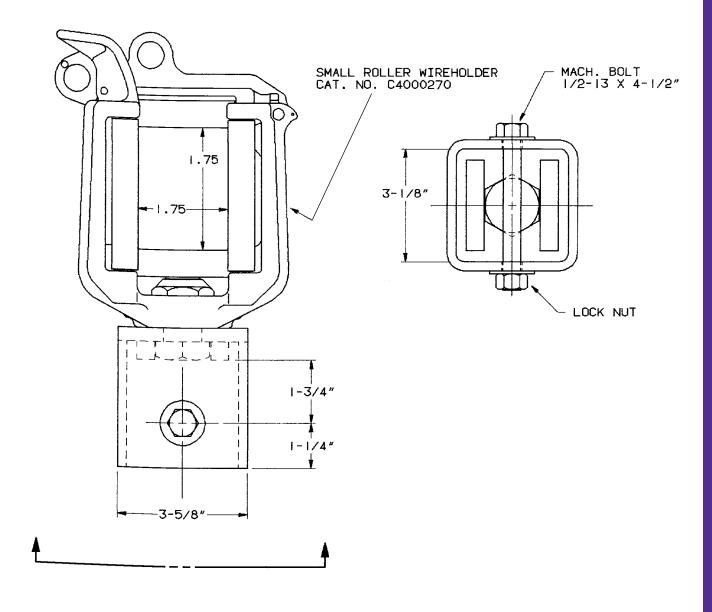


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4178 November 2013



Small Roller Wireholder with Holan Adapter Cat. No. PST4001945

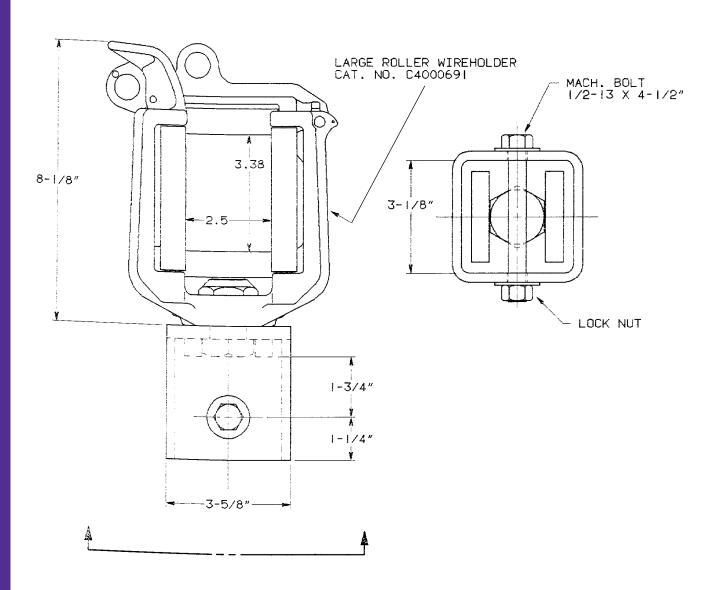




Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Large Roller Wireholder with Holan Adapter Cat. No. PST4001926

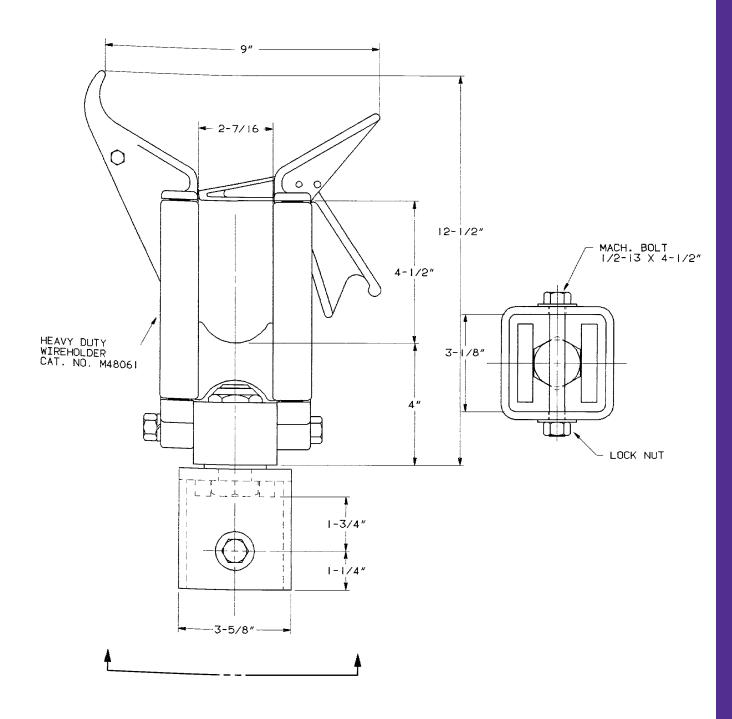


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4180 November 2013



Heavy-Duty Wireholder with Holan Adapter Cat. No. T4001912

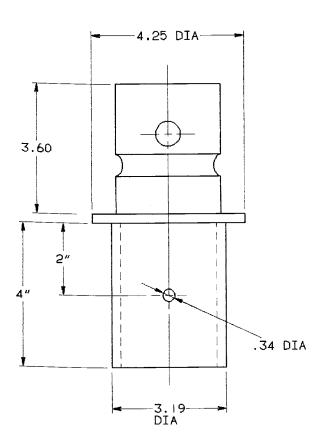




Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



Telelect Jib Adapter Cat. No. T4001946



FOR USE WITH CHANCE

T4001856	Support Arm
T4001857	Support Arm
C4000746	Rope Sheave Assembly
C4000747	Large Roller Wireholder

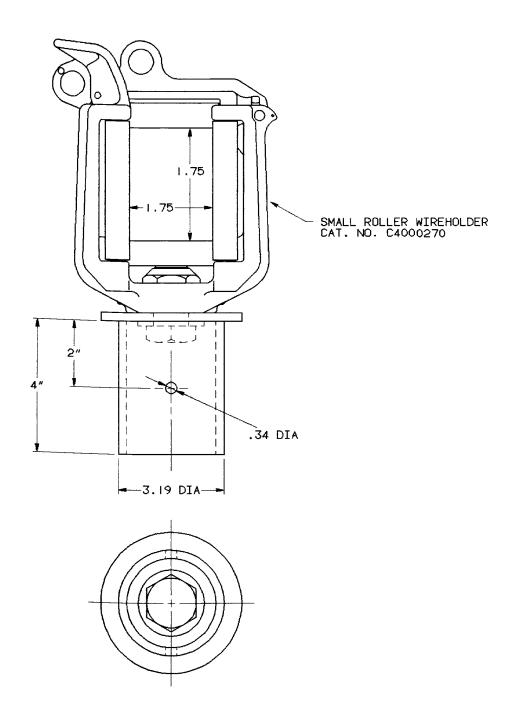
HUBBELL

Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4182 November 2013



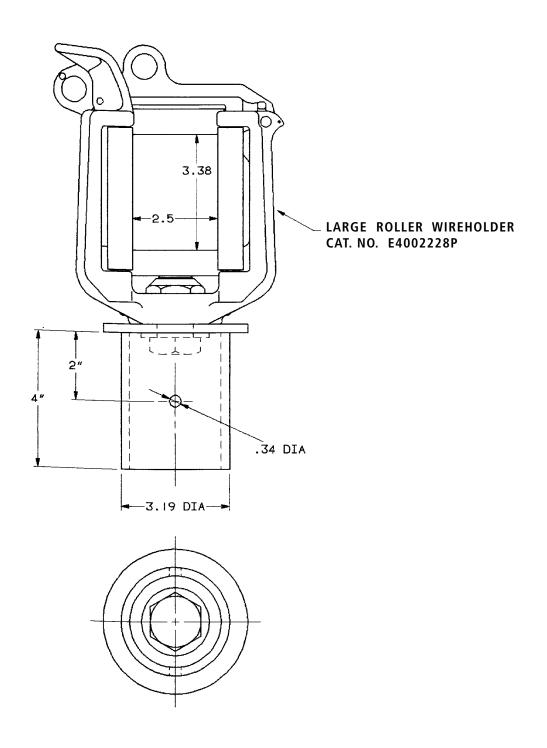
Small Roller Wireholder for Telelect Jib Cat. No. T4001941







Large Roller Wireholder for Telelect Jib Cat. No. T4001942

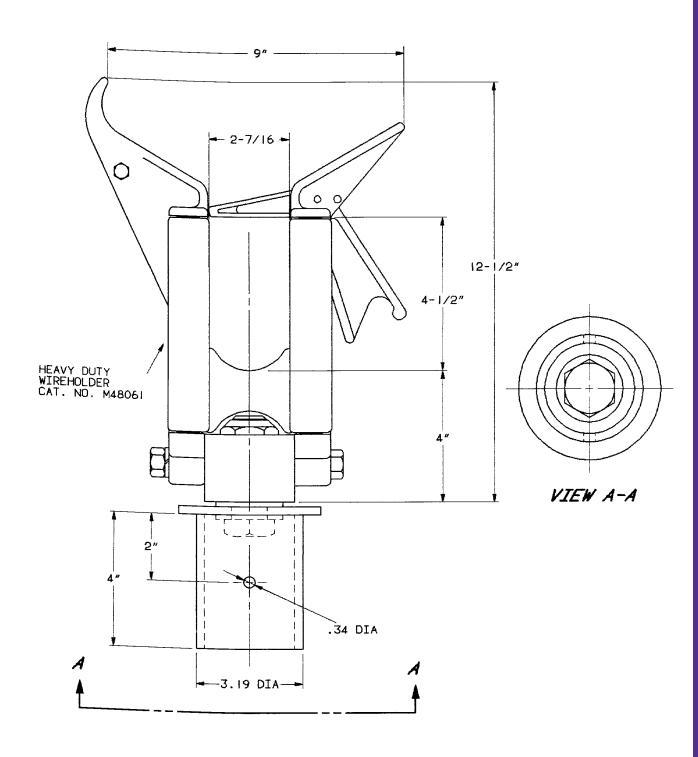


Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4184 November 2013



Heavy-Duty Wireholder for Telelect Jib Cat. No. T4001943

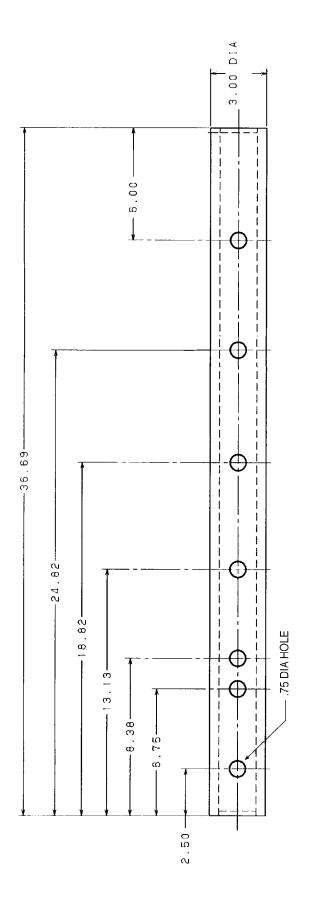




Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com



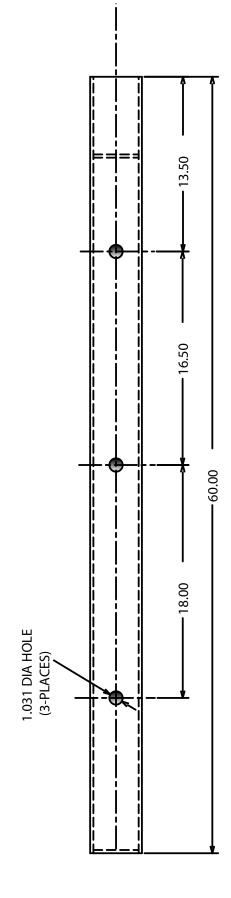
3"-diameter Jib T4001525 for ALTEC® trucks Rated Working Load 1,000#



November 2013

Page 4186

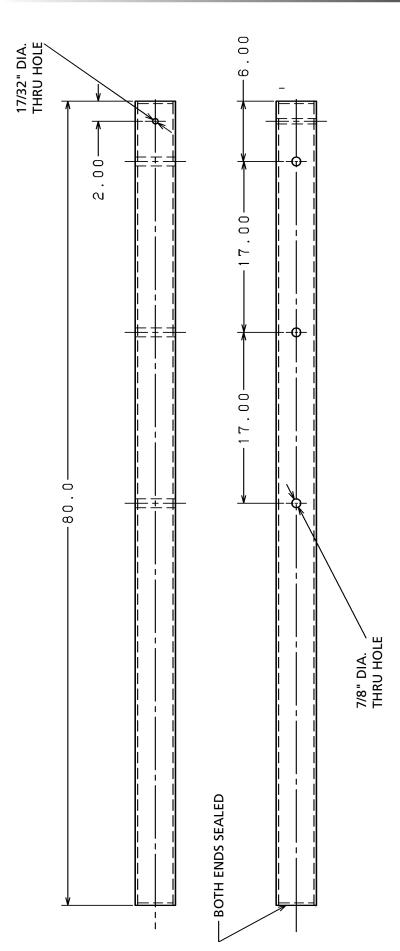




4" x 4" Jib T4001764 for HOLAN trucks Rated Working Load 1,200#







4" x 4" Jib T4001933 for Reach-All trucks



Phone: 573-682-5521 Email: hpsliterature@hubbell.com Web: hubbellpowersystems.com

Page 4188 November 2013



CHANCE® Tools and Grounding Catalog | 2012

About Hubbell Power Systems

Hubbell Power Systems (HPS) manufactures a wide variety of transmission, distribution, substation, OEM and telecommunications products used by utilities. HPS products are also used in the civil construction, transportation, gas and water industries. Our product line includes construction and switching products, tools, insulators, arresters, pole line hardware, cable accessories, test equipment, transformer bushings and polymer precast enclosures and equipment pads.

NOTICE: For the latest revision of our Catalog and Literature, visit our web site: www.hubbellpowersystems.com

Because Hubbell has a policy of continuous product improvement. We reserve the right to change design and specifications without notice.

©Copyright 2012 Hubbell Incorporated Printed in U.S.A. 10/12RPXXM

Bulletin 07-1299

www.hubbellpowersystems.com

